ø30 Switches and Pilot Lights

TWN TWND Series



Heavy duty switches & pilot lights offer both variety and reliability.











- Pilot light is not approved by EN standards.
- DC-DC convertor unit is not approved by standards.
- See website for details on approvals and standards.





	Model	Features	Page
	Plastic TWN Series	The all-time bestseller since first developed. Suitable for versatile applications.	B-304
Diecast Zinc TWI	Diecast Zinc TWND Series	Heavy-duty switches for tough industrial usage.	B-326

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof**

Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN CS

ø30 TWN/TWND Selection Guide

Function	Pushbutton					
Cotomomi	Flu	sh	Exte	ended	Extended wit	th Half Shroud
Category	Momentary/	'Maintained	Momentary	y/Maintained	Momentary	//Maintained
Shape				Diecast Zinc		Diecast Zinc
Model	ABN1 AON1	ABD1 AOD1	ABN2 AON2	ABD2 AOD2	ABN2G AON2G	ABGD2 AOGD2
Page	B-310	B-326	B-310	B-326	B-310	B-326

Function	Pushbutton					
Catamani	Extended with Full Shroud		Mush	room	Mushroom wi	th Full Shroud
Category	Momentary.	/Maintained	Momentary	/Maintained	Momentary	/Maintained
	_	Diecast Zinc		Diecast Zinc		Diecast Zinc
Shape						
Model	ABN2F	ABFD2	ABN3	ABD3	ABN3G	ABGD3
iviouei	A0N2F	AOFD2	AON3	AOD3	_	AOGD3
Page	B-310	B-326	B-311	B-327	B-311	B-327

Function	n Pushbutton					
Cotogony	Jumbo N	lushroom	Jumbo Mushroom v	with Shallow Shroud	Jumbo Mushroom	with Deep Shroud
Category	Mom	entary	Momentary		Mom	entary
		Diecast Zinc		Diecast Zinc		Diecast Zinc
Shape						
Model	ABN4	ABD4	ABN4G	ABGD4	ABN4F	ABFD4
Page	B-311	B-327	B-311	B-327	B-311	B-327

Function			Pushl	button		
Category	Mushroom Pushlock Turn Reset (*1)		Mushroom P	ush Turn Lock	Mushro	oom Pull
Shape		Diecast Zinc		Diecast Zinc	6	Diecast Zinc
Model	AVN3	AVD3	AJN3	AJD3	AZN3	AZD3
Page	B-312	B-328	B-312	B-328	B-312	B-328

Function		Pushl	outton	
Category	Mushroom Push-Pull		Pin I	_ock
Shape	_	Diecast Zinc	_	Diecast Zinc
Model	_	AYD3	_	ABD8P
Page	_	B-328	_	B-327

 $^{^{\}star}$ 1) Cannot be used as emergency stop switch based on ISO 13850 and IEC 60947-5-5.

Control Boxes

Emergency
Stop Switches
Enabling
Switches
Safety Products

Explosion Proof
Terminal Blocks
Relays & Sockets
Circuit
Protectors
Power Supplies

LED Illumination
Controllers
Operator

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN

ø30 TWN/TWND Selection Guide

Function	LED Illuminated Pushbutton					
Cotogory	Exte	nded	Extended wit	Extended with Half Shroud		h Full Shroud
Category	Momentary	/Maintained	Momentary	/Maintained	Momentary	/Maintained
Shape		Diecast Zinc		Diecast Zinc —		Diecast Zinc
Model	ALN2 AOLN2	ALD2 AOLD2	ALGN2 AOLGN2	_	ALFN2 AOLFN2	ALFD2 AOLFD2
Page	B-313	B-329	B-313		B-313	B-329

Function		LED Illuminated Pushbutton					
Category	Mush	room	Muchroom Duchl	ock Turn Reset (*1)	Muchroom P	ush Turn Lock	
Category	Momentary	/Maintained	Widshi odin Fushi	ock fulli neset (1)	IVIUSIII OOIII F	usii iuiii Lock	
Shape		Diecast Zinc		Diecast Zinc		Diecast Zinc —	
Model	ALN3 AOLN3	ALD3 AOLD3	AVLN3	AVLD3	AJLN3	_	
Page	B-313	B-330	B-314	B-330	B-313		

Function	Selector Switches					
Category	Kr	nob	Le	ver	K	ey
Shape		Diecast Zinc		Diecast Zinc		Diecast Zinc
Model	ASN	ASD	ASN□L	ASD□L	ASN□K	ASD□K
Page	B-316	B-331	B-317	B-332	B-318	B-333

Function	Selector Switch Selector Pt		Selector Switch		
Category	Key	LED Illumi	nated Knob	Ring Op	perator
Shape			Diecast Zinc		Diecast Zinc
Model	ASN□K-N024401	ASLN	ASLD	ASBN2	ASBD2
Page	B-319	B-320 B-334		B-323	B-335

Function	LED Illuminated Pilot Light				
Category	Ī	Dome		Rectangular (Marking) (IP40)	
Shape	Diecast Zinc				
Model	APN1	APD1	UPQN3B	UPQN4	
Page	B-324	B-336	B-324	B-324	

 $^{^{\}star}$ 1) Cannot be used as emergency stop switch based on ISO 13850 and IEC 60947-5-5.

ø30 TWN/TWND Ratings/Specifications

Heavy duty switches & pilot lights offer both variety and reliability. **Endures harsh environments.**

Equipped with HW-U contact blocks featuring finger-safe (IP20) structure and spring-up terminals.

ø30 TWN Series (plastic)



ø30 TWND Series (Diecast Zinc)



APEM

Control Boxes

Emergency Enabling

Safety Products

Switches

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

Ratings and Specifications

Contact ratings

П	Pushbuttons	Rated insulation voltage	600V
Į i	Illuminated Pushbuttons	Rated continuous current	10A
l	Selector Switches Illuminated Selector Switches Selector Pushbuttons	Contact ratings by utilization category JIS C8201-5-1 IEC60947-5-1	AC-15 (A600) DC-13

Contact ratings by utilization category

HW-U10 (NO contact), HW-U01 (NC contact)

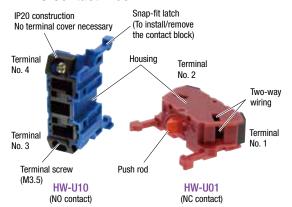
Operating Voltage				48V	50V	110V	220V	440V
	AC	10A	_	10A	10A	6A	2A	
Operating	50/60 Hz	AC-15 Control of electromagnetic loads (> 72 VA)	10A	_	7A	5A	3A	1A
Current	DC	DC-12 Control of resistive loads and solid state loads	10A	5A	_	2.2A	1.1A	_
	DC DC-13 Control of electromagnets				_	1.1A	0.6A	_

HW-U10R (EM contact/NO contact), HW-U01R (LB contact/NC contact)

Operating Voltage				48V	50V	110V	220V	440V
	AC	AC-12 Control of resistive loads and solid state loads	5A	-	5A	5A	3A	1A
Operating	50/60 Hz	AC-15 Control of electromagnetic loads (> 72 VA)	5A	_	3.5A	2.5A	1.5A	0.5A
Current	DC	DC-12 Control of resistive loads and solid state loads	5A	2.5A	1	1.1A	0.55A	-
	DC	DC-13 Control of electromagnets	2.5A	1A	_	0.55A	0.3A	_

- The operating current represents the classification by making and breaking currents (IEC 60947-5-1).
- Silver contacts
- . Minimum applicable load: 3V AC/DC, 5 mA (applicable range may vary with operating conditions and load types)
- For mono-lever switches and cam switches, see the brochures of each product.

HW-U Contact Block



Part No.	HW-U10	HW-U01	HW-U10R	HW-U01R			
Contact	_/_	7	_/_	7			
Contact	1NO	1NC	EM (NO) (early make)	LB (NC) (late break)			
Terminal No.	3-4	1-2	3-4	1-2			
Housing color	Blue	Reddish purple	Blue	Reddish purple			
Push Rod color	Green	Red	Black	White			
Weight	Approx. 11g						

- Up to 4 contacts in two decks can be mounted onto each operator. (AZN, AZD, AYD: Up to 2 contact blocks in one deck)
- · Cannot be used on operators in dark gray or light gray color.
- Gold contact available (gold-plated silver)

ARN

CS

Control Boxes Emergency Stop Switches Enabling Switches Safety Products

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit Protectors Power Supplies LED Illumination Controllers Operator

> Sensors AUTO-ID

Flush Silhouette

ø16

ø22

Miniature Pilot Lights

> ARN CS

LED Illuminated Part Specifications

Unit	Unit						
UIIIL	Rated Voltage		Operating Vo	ltage	Lamp Base	Part No.	
	6V AC/DC		6V AC/DC			LSRD-6	
	12V AC/DC		12V AC/DC			LSRD-1	
	24V AC/DC		24V AC/DC			LSRD-2	
	100/110V AC		100/110V AC				
	115/120V AC (*1)		115/120V AC (*1)	. 100/			
Illuminated pushbutton	120V AC (*2)		120V AC (*2)				
Illuminated selector switch	200/220V AC		200/220V AC	±10%	BA9S/13		
Pilot light	230/240V AC (*1)	50/60 Hz	230/240V AC (*1)			LSRD-6	
	240V AC (*2)		240V AC (*2)			LSKD-6	
	380V AC		380V AC				
	400/440V AC		400/440V AC				
	480V AC		480V AC				
	110V DC		90 to 140V DC				

Illuminated Part Type and Shape

	J.	Illuminated	d Unit		Pilot	Light	
Power Unit	Full voltage adapter	Transfo	Transformer DC-		pr DC-DC converter Full voltage adapter (unibody) Transformer		DC-DC converter
Rated Voltage	6V, 12V, 24V AC/DC	100 to 240V AC	380V AC min.	110V DC	6V, 12V, 24V AC/DC	100 to 480V AC	110V DC
Polarity	None	None	None	X1 (+) X2 (-)	None	None	X1 (+) X2 (–)
Shape/Terminal	X1 X2	X1 X2		X1 X2	(APN1)		X1 X2

[•] Note the polarity for wiring when connecting to DC-DC converter unit.

Х1

Х2

LED L

Lamp Katings	(LSRD)	
0.	LSRD-6	LS

Part No.		LSRD-6	LSRD-1	LSRD-2				
Lamp Base		A9S/13						
Rated Voltage	е	6V AC/DC 12V AC/DC 24V AC/DC						
Voltage Rang	je	6V AC/DC ±10%	12V AC/DC ±10%	24V AC/DC ±10%				
Current	DC	10mA	7mA	7mA				
Draw	AC	14mA	8mA	8mA				
Voltage Mark	king	Die stamped on the base						
Life (reference	ce value)	Approx. 50,000 hours (The luminance is reduced to 50% the initial intensity when used on complete DC at 25°C.)						
Internal Circu	uit	X1 — Noise	ted current circuit e protection circuit ifier circuit mer protection circuit	Example: LSRD-2				
Weight		Approx. 2g						

[•] Only one color is available for LSRD so there are no codes to specify the color in the part no.

See LED lamps, see LED Lamp Ratings below.
 *1) Illuminated pushbutton, illuminated selector switch

^{*2)} Pilot light

Specifications

Operating Temperature			Non-illuminated: -25 to +70°C (no freezing)				
			Illuminated: -25 to +50°C (no freezing)				
Storage Temperature			-40 to +80°C (no freezing) 45 to 85% RH (no condensation)				
Operating Humidity							
Contact Resistance			50 mΩ maximum (initial value)				
Insulation Resistance			100 MΩ minimum (500V DC megger) Between live and dead metal parts: 2,500V AC, 1 minute				
Dielectric Strength			(Full voltage and pilot lights: 2,000V AC, 1 minute) 2000V AC, (pilot lights: 6V AC/DC, 12V, 24V)				
Damage limits			30 Hz, amplitude 1.5 mm				
Vibration Resistance	Operation extremes		5 to 55 Hz, amplitude 0.5 mm				
Charle Danistanas	Damage limits		1000 m/s ²				
Shock Resistance	Operation extremes		100 m/s ²				
		Momentary	5,000,000				
	Duahhuttan	Maintained	500,000 (over 3 contacts: 250,000)				
	Pushbutton	Push lock turn reset	500,000				
		Pull	500,000				
Mechanical Life	When the standard has been the se	Momentary	2,500,000				
(minimum operations) Illuminated pushbutton		Maintained	500,000 (over 3 contacts: 250,000)				
	Selector switch		500,000				
Key selector switch			500,000				
	Illuminated selector swite	ch	500,000				
	Selector pushbutton		250,000				
		Momentary	500,000 Switching frequency 1800 operations/h, duty ratio 40%				
	Pushbutton	Maintained	500,000 (over 3 contacts: 250,000) Switching frequency 900 operations/h, duty ratio 40%				
		Push lock turn reset	500,000 Switching frequency 900 operations/h, duty ratio 40%				
		Momentary	500,000 Switching frequency 1800 operations/h, duty ratio 40%				
Electrical Life (minimum operations) (*1)	Illuminated pushbutton	Maintained	500,000 (over 3 contacts: 250,000) Switching frequency 900 operations/h, duty ratio 40%				
	Selector switch	•	500,000 Switching frequency 1200 operations/h, duty ratio 40%				
	Key selector switch		500,000 Switching frequency 1200 operations/h, duty ratio 40%				
	Illuminated selector swite	ch	500,000 Switching frequency 1200 operations/h, duty ratio 40%				
	Selector pushbutton		250,000 Switching frequency 900 operations/h, duty ratio 40%				
		Pushbutton	ABN122: 82g ABN322: 87g				
		Illuminated pushbutton	ALN22222DN: 106g ALN21622DN: 163g				
	TWN series	Selector switch	ASN222N: 83g ASN2K22N: 120g				
		Illuminated selector switch	ASLN22222DN: 106g ASLN21622DN: 163g				
Weight (seemon)		Pilot light	APN122DN: 46g APN116DN: 125g				
Weight (approx.)		Pushbutton	ABD122: 108g ABD322: 113g				
		Illuminated pushbutton	ALD22222DN: 132g ALD21622DN: 189g				
	TWND series	Selector switch	ASD222N: 110g ASD2K22N: 147g				
		Illuminated selector switch	ASLD22222DN: 133g ASLD21622DN: 190g				
		Pilot light	APD122DN: 75g APD116DN: 152g				

^{*1)} Load condition 220V AC 3A (AC-15)

Degree of Protection

Series	Unit	Model	IEC 60529	JIS C 0920	
	Pushbutton	ABN, AON, AVN			
	Illuminated pushbutton	ALN, AOLN, AVLN			
	Selector switch	ASN, ASN□L			
TWN corios	Key selector switch	ASN□K	IP65	Dust-proof/jet-proof	
TWN series	Illuminated selector switch	ASLN			
	Selector pushbutton	ASBN			
	Round pilot light	APN			
	Square pilot light	UPQN	IP40	_	
	Pushbutton	ABD, AOD, AVD			
	Illuminated pushbutton	ALD, AOLD, AVLD			
	Selector switch	ASD, ASD□L			
TWND series	Key selector switch	ASD□K	IP65	Dustproof/jet-proof	
Diecast zinc	Illuminated selector switch	ASLD			
	Selector pushbutton	ASBD			
	Round pilot light	APD			

[•] Switches/pilot lights have been tested in a test room in accordance with the degree of protection standards, by installing on an enclosure to valuate the effect on the enclosure or inside the switch or pilot light.

For harsh environment such as torrid/frigid area

TWN/TWND series for harsh environment such as tropical/frigid area is also available (not approved by standards). Contact IDEC for details.

► Download catalogs and CAD from http://eu.idec.com/downloads

Control Boxes

APEM

Emergency Stop Switches Enabling Switches

Safety Products **Explosion Proof**

Terminal Blocks Relays & Sockets

Circuit Protectors Power Supplies

LED Illumination Controllers

Operator Sensors

AUTO-ID

Flush Silhouette ø16

ø22

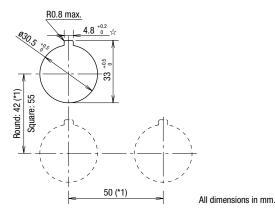
Miniature

Pilot Lights

ARN

CS

Mounting Hole Layout/Mounting Centers



- The minimum mounting centers are applicable to pilot lights with one layer of contact blocks (one to two contact blocks). When two layers of contact blocks (four contact blocks) are mounted, determine the minimum mounting centers in consideration of convenience for wiring.
 - *1) Mushroom with shroud: 50 mm minimum
- *1) Jumbo mushroom: 67 mm minimum
- *1) Jumbo mushroom with shroud: 77 mm minimum

When high temperature is expected, take necessary measures such as

securing sufficient mounting centers or using a cooling fan.

• The 4.8 $^{+0.2}_{-0}$ mm recess is for preventing rotation and is not necessary when the nameplate or anti-rotation ring is not used.

Note: For mounting hole layout of mono-lever switches and cam switches, see IDEC's website.

Notes for Ordering

Standard models

- Specify Ordering No. when ordering.
- Specify a color code in place of *
- Pilot lights, illuminated pushbuttons, and illuminated selector switches have an LED lamp installed.
- Pilot lights are equipped with a terminal cover.
- Color codes for units without LED lamps:

R (red), G (green), A (amber), Y (yellow), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make sure of correct operation before installation. The operation of TWN/TWND series cannot be guaranteed when a commercially available lamp is used.

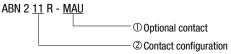
- · Terminal covers, nameplates, and accessories for mono-lever swictch and cam switch are ordered separately.
- For terminal cover, nameplate and other accessories of mono-lever switches and cam switches, see IDEC's website.

Ordering Information

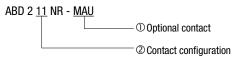
Pushbutton

When specifying gold-plated silver contact and contact configuration:

TWN series (B-310 to B-312)



TWND series (B-326 to B-328)



<Codes> ① Optional contact

MAU: Gold-plated silver

2 Contact configuration

10: 1NO

01: 1NC

11: 1NO1NC

20: 2N0 02: 2NC

2N02NC 22:

40: 4N0

04: 4NC

1N03NC 13:

31: 3N01NC

30: 3N0

3NC 03:

12: 1N02NC

2N01NC

- Pushbutton with one or three contact blocks contains a dummy block.
- Mushroom pull pushbuttons AZN, AZD and mushroom push-pull AYD have up to two contacts in one layer.

APEM

Control Boxes

Emergency Stop Switches Enabling

Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

> Sensors AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

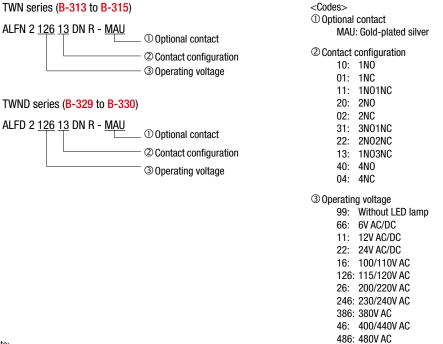
ARN

CS

Ordering Information

Illuminated Pushbutton

When specifying gold-plated silver contact, contact configuration, and LED operating voltage:



Note

- Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, are not available for models of 100V AC or over.
- Illuminated pushbuttons of 24V AC/DC and below with two or four contact blocks contain a dummy block.
- See B-309 for how to specify 110V DC model (DC-DC converter).
- Color codes for units without LED lamps:

R (red), G (green), A (amber), Y (yellow), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

Selector Switch

When specifying gold-plated silver contact and contact configuration:

```
TWND series (B-316 to B-319)

ASN 2 11 N - MAU

Optional contact

Optional contact

Optional contact

MAU: Gold-plated silver
```

Key removable position code (example)

	Position	Voy removable position	Key removable	Part No. Example				
	POSITION	Key removable position	position code		TWND series			
		Removable in all positions	(blank)	ASN2K20N	ASN2K20N-N024401	ASD2K20N		
	Maintained	Removal in left only	В	ASN2K20NB	ASN2K20NB-N024401	ASD2K20NB		
-position		Removable in right only	С	ASN2K20NC	ASN2K20NC-N024401	ASD2K20NC		
	Spring return from right	Removal in left only	(blank)	ASN21K20N	ASN21K20N-N024401	ASD21K20N		
	Spring return from left	Removable in right only	(blank)	ASN22K20N	ASN22K20N-N024401	ASD22K20N		
		Removable in all positions	(blank)	ASN3K20N	ASN3K20N-N024401	ASD3K20N		
		Removable in left and center Removable in right and center		ASN3K20NB	ASN3K20NB-N024401	ASD3K20NB		
				ASN3K20NC	ASN3K20NC-N024401	ASD3K20NC		
	Maintained	Removable in center only	D	ASN3K20ND	ASN3K20N D -N024401	ASD3K20ND		
		Removable in right and left	E	ASN3K20NE	ASN3K20NE-N024401	ASD3K20NE		
		Removal in left only	G	ASN3K20NG	ASN3K20NG-N024401	ASD3K20NG		
nosition		Removable in right only	Н	ASN3K20NH	ASN3K20NH-N024401	ASD3K20NH		
-position		Removable in left and center	(blank)	ASN31K20N	ASN31K20N-N024401	ASD31K20N		
	Spring return from right	Removable in center only	D	ASN31K20ND	ASN31K20ND-N024401	ASD31K20ND		
		Removal in left only	G	ASN31K20NG	ASN31K20NG-N024401	ASD31K20NG		
		Removable in right and center	(blank)	ASN32K20N	ASN32K20N-N024401	ASD32K20N		
	Spring return from left	Removable in center only	D	ASN32K20ND	ASN32K20ND-N024401	ASD32K20ND		
		Removable in right only	Н	ASN32K20NH	ASN32K20NH-N024401	ASD32K20NH		
	Spring return two-way	Removable in center only	(blank)	ASN33K20N	ASN33K20N-N024401	ASD33K20N		

[•] The key cannot be removed in spring return positions.

■ Download catalogs and CAD from http://eu.idec.com/downloads

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches Enabling

Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit

Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

A010 ID

Flush Silhouette

ø16

ø22

ø30

Miniature

Pilot Lights

WND

Control Boxes

Emergency Stop Switches

Enabling

Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

ø16

ø22

Miniature

Pilot Lights

Flush Silhouette

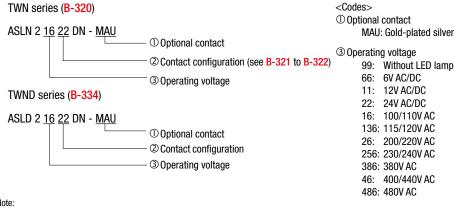
Circuit

Protectors

Ordering Information

Illuminated Selector Switch

When specifying gold-plated silver contact, contact configuration, and LED operating voltage:



- Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, is not available for models of 100V AC or over.
- Illuminated selector switches of 24V AC/DC and below with two or four contact blocks contain a dummy block.
- See below for how to specify 110V DC model (DC-DC converter).
- Color codes for units without LED lamps: R (red), G (green), A (amber), Y (yellow), S (blue) When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

Pilot Light (LED)

When specifying LED operating voltage:

```
TWN series (B-324 to B-325)
                                                  <Codes>
                                                  ① Operating voltage
  APN1 26 DN R
                                                        99: Without LED lamp
                                                       66: 6V AC/DC
                       ① Operating voltage
                                                        11: 12V AC/DC
  UPQN3B 22 D R
                                                        22: 24V AC/DC
                                                        16: 100/110V AC
                       ① Operating voltage
                                                        126: 115/120V AC
                                                        26: 200/220V AC
  TWND series (B-336)
                                                        246: 230/240V AC
                                                        386: 380V AC
  APD1 26 DN R
                                                        46: 400/440V AC
                       ① Operating voltage
                                                        486: 480V AC
```

- See below for how to specify 110V DC model (DC-DC converter).
- Color codes for units without LED lamps: R (red), G (green), A (amber), Y (vellow), W (white), S (blue)

When using a commercially available lamp, choose a lamp with rated voltage 5 to 30V AC/DC and 1W maximum, and with the same base and shape.

DC-DC Convertor Model (110V DC)

When specifying DC-DC convertor type on illuminated pushbuttons, illuminated selector switches, and pilot lights:

TWN series

ARN CS ALN2 16 22D DN G ① Operating voltage

```
① Operating voltage
                                                           16 D: 110V DC
  ASLN2 16 11D DN Y
                        ① Operating voltage
  APN1 <u>16</u> <u>D</u> DN R
                        ① Operating voltage
TWND series
  ALD2 16 22D DN G
                         ① Operating voltage
  ASLD2 16 11D DN Y
                        ① Operating voltage
  APD1 16 D DN R
                        ① Operating voltage
```

- See 110V DC model (DC-DC converter) is not approved by standards (operating voltage: 90 to 140V DC).
- Odd number of contact blocks, such as 1NO, 1NC, 3NO, 2NO-1NC, 1NO-2NC, and 3NC, is not available for 100V DC model (DC-DC converter).

Flush/Extended/Extended w/Half Shroud/Extended with Full Shroud

Package Quantity: 1

			v	,		Package Quantity: 1	
Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)	t Lights
Flush		1NO	ABN110*	В			ङ
ABN1		1NC	ABN101*	G			
AON1		1NO-1NC	ABN111*	R			
- 6	Momentary	2N0	ABN120*	Y S	-1 -	Panel Thickness 0.8 to 7.5	APEM
		2NC	ABN102*	W			Switches &
		2NO-2NC	ABN122*	Note			Pilot Lights
		1NO	A0N110*	В			Control Boxes
		1NC	A0N101*	G	45.4 (1 or 2 blocks)	29.6	Emergency Stop Switches
	Maintained	1NO-1NC	A0N111*	R Y	65.4(3 or 4 blocks)	9 039	Enabling
	Iviaiiitaiiieu	2N0	A0N120*	S			Switches
		2NC	A0N102*	W			Safety Products
		2NO-2NC	A0N122*	Note			
Extended		1NO	ABN210*	В			Explosion Proof
ABN2 AON2		1NC	ABN201*	G			Terminal Blocks
AUNZ	Momentary	1NO-1NC	ABN211*	R			
	ivioinemai y	2N0	ABN220*	Y	-1 	Panel Thickness 0.8 to 7.5	Relays & Sockets
		2NC	ABN202*	S W			Circuit Protectors
		2NO-2NC	ABN222*	**	± 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		1NO	A0N210*	В			Power Supplies
		1NC	A0N201*	G	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 1	29.6	LED Illumination
	Maintained	1NO-1NC	A0N211*	R		14 ø39	Controllers
	- maintainoa	2N0	A0N220*	Y S			
		2NC	A0N202*	W			Operator Interfaces
E		2NO-2NC	A0N222*				Sensors
Extended with Half Shroud ABN2G		1NO	ABN2G10*	В			
AON2G		1NC	ABN2G01*	G			AUTO-ID
	Momentary	1NO-1NC	ABN2G11*	R			
	, , , , ,	2N0	ABN2G20*	Y S	Pa	Panel Thickness 0.8 to 3.5	
		2NC	ABN2G02*	W			
		2NO-2NC	ABN2G22*		4.	835 835 835	Flush Silhouette
		1NO 1NC	AON2G10*	В			ø16
		1NO-1NC	AON2G01*	G		3.5	
	Maintained		AON2G11*	R Y	60.9 (3 or 4 blocks) 2	0.5	ø22
		2N0 2NC	AON2G20* AON2G02*	S			ø30
		2NO-2NC	AON2G02*	W			
Extended with Full Shroud		1NO	ABN2F10*				Miniature
ABN2F		1NC	ABN2F01*	В			Pilot Lights
AON2F		1NO-1NC	ABN2F11*	G			
	Momentary	2N0	ABN2F11* ABN2F20*	R Y			
		2NC	ABN2F02*	- s	-11	Panel Thickness 0.8 to 6	
		2NO-2NC	ABN2F02*	W			TWN
		1NO	ADN2F22* AON2F10*		4 4 4	1 1 1 2 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1	
		1NC	A0N2F01*	В			TWND
		1NO-1NC	AON2F11*	- G		14 29.6	ARN
	Maintained	2N0	AON2F11*	R Y	65.4 (3 or 4 blocks)	16.5	
		2NC	AON2F02*	S			CS ————————————————————————————————————
		2110	ACHE OF	⊢ w			

• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)

2NO-2NC

- Round bezel and shroud (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-312 for bottom view.
- Terminal screws: M3.5
- · Integrated terminal cover

Note ABN1, AON1 with button color of B (black), G (green), or (R) red Supply of color buttons B, G, R has been discontinued for ABN1/AON1 without color code. When ordering, make sure to specify the required button color code.

A0N2F22*

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWND

CS

Mushroom/Mushroom w/Full Shroud/Jumbo Mushroom/Jumbo Mushroom w/Shallow Shroud/Jumbo Mushroom w/Deep Shroud

Package Quantity: 1

Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)
Mushroom ABN3 AON3	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN310* ABN301* ABN311* ABN320* ABN302* ABN322*	B G R Y S	Panel Thickness 0	.8 to 7.5
	Maintained	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	A0N310* A0N301* A0N311* A0N320* A0N302* A0N322*	B G R Y S	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 22	29.6
Mushroom with Full Shroud ABN3G	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN3G10* ABN3G01* ABN3G11* ABN3G20* ABN3G02* ABN3G22*	B G R Y S	Panel Thickness 0. 43.9 (1 or 2 blocks) 63.9 (3 or 4 blocks) 23.5	8 to 6.5
Jumbo Mushroom ABN4	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN410* ABN401* ABN411* ABN420* ABN402* ABN402*	B G R Y	Panel Thickness 0.8 to 7.5. 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 29	28.6
Jumbo Mushroom with Shallow Shroud ABN4G	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN4G10* ABN4G01* ABN4G11* ABN4G20* ABN4G02* ABN4G22*	B G R Y	Panel Thickness 0.8 to 7.5 Panel Thickness 0.8 to 7.5 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 29	29.6
Jumbo Mushroom with Deep Shroud ABN4F	Momentary	1NO 1NC 1NO-1NC 2NO 2NC 2NO-2NC	ABN4F10* ABN4F01* ABN4F11* ABN4F20* ABN4F02* ABN4F22*	B G R Y	Panel Thickness 0.8 to 7.5 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 33	29.6

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Round bezel and shroud (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-312 for bottom view.
- Terminal screws: M3.5
- Integrated terminal cover

Mushroom Pushlock Turn Reset/Mushroom Push Turn Lock/Mushroom Pull

Package Quantity: 1

Shape	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions (All dimensions in mm.)
Mushroom Pushlock Turn Reset (*1) AVN3	1NO	AVN310N*		
AVINO	1NC	AVN301N*		Panel Thickness 0.8 to 7.5
	1NO-1NC	AVN311N*	R Y	
	2N0	AVN320N*	Y	
	2NC	AVN302N*		45.4 (1 or 2 blocks) 29.6
	2NO-2NC	AVN322N*		65.4 (3 or 4 blocks) 23.6
Mushroom Push Turn Lock AJN3	1NO	AJN310N*		Panel Thickness 0.8 to 7.5
AJNS	1NC	AJN301N*	<u> </u>	
	1NO-1NC	AJN311N*	B G R	
	2N0	AJN320N*	R	
	2NC	AJN302N*	_ '	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 23.6
	2NO-2NC	AJN322N*		
Mushroom Pull AZN3	1NO	AZN310N*		
AZINS	1NC	AZN301N*		Panel Thickness 0.8 to 7.5
	1NO-1NC	AZN311N*	B G R	
	2N0	AZN320N*	R	4 6 4
	2NC	AZN302N*	Υ	45.4 25.1 5.5 stroke 29.6
				H 1910 H

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Round bezel (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- . Mushroom pull has up to 2 contact blocks.
- Terminal screws: M3.5
- · Integrated terminal cover
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).

Pushbutton operation

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

Push Turn Lock

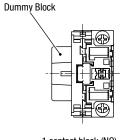
Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

Pulling the button operates the contacts, and releasing the button return the contacts.

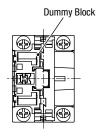
Pull contact operation

Contact	AZ	N3
Contact	Normal	Pull
1NO	o _r o	- - -
2NO-2NC	ის •_•	0 0 e1e
2N0	مړه مړه	00 00
2NC	•••	● 1● ● 1●

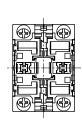
Bottom View (for non-illuminated pushbuttons and selector switches)



1 contact block (NO) (NC: opposite position)



3 contact blocks



2/4 contact blocks

- See B-348 for wiring.
- Integrated terminal cover

APEM

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit

Protectors

Power Supplies LED Illumination

Controllers

Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

TWND

ARN

CS

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator

> Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

> TWND ARN CS

LED Illuminated Extended/Extended with Half Shroud/Extended with Full Shroud

Package Quantity: 1

Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code	Dimens Pag
xtended				1NO-1NC	ALN22211DN*		
LN2			24V AC/DC	2N0	ALN22220DN*		
OLN2				2NC	ALN22202DN*	R	
				1NO-1NC	ALN21611DN*	G	
		Momentary	100/110V AC	2N0	ALN21620DN*	Y	
			100,1101710	2NC	ALN21602DN*	– A S	
				1NO-1NC	ALN22611DN*	– S PW	
			200/220V AC	2N0	ALN22620DN*		
(24VAC/DC)			200/2201710	2NC	ALN22602DN*		
,	BA9S			1NO-1NC	A0LN22211DN*		
_			24V AC/DC	2N0	AOLN22220DN*	-	
			247710700	2NC	A0LN22202DN*	R	
				1NO-1NC	AOLN21611DN*	⊢ G	
		Maintained	100/110V AC	2NO		Ϋ́	
		Maintaineu	100/110V AC	2NC	AOLNO1620DN*	_ A	
					AOLN21602DN*	_ S	
With transformer			200/2004 40	1NO-1NC	AOLN22611DN*	PW	
(100/110V AC)			200/220V AC	2NO	AOLN22620DN*		
xtended with Half Shroud				2NC	AOLN22602DN*		
xtended with Haif Shroud LGN2			0.41/4.0/50	1NO-1NC	ALGN22211DN*		
OLGN2			24V AC/DC	2N0	ALGN22220DN*	_	
. 🛋				2NC	ALGN22202DN*	R	
				1NO-1NC	ALGN21611DN*	G Y	
		Momentary	100/110V AC	2N0	ALGN21620DN*	Ä	
				2NC	ALGN21602DN*	S	
				1NO-1NC	ALGN22611DN*	PW	
			200/220V AC	2N0	ALGN22620DN*		
(24V AC/DC)	BA9S			2NC	ALGN22602DN*		B-3
	D/ 100			1NO-1NC	AOLGN22211DN*		
			24V AC/DC	2N0	AOLGN22220DN*		
				2NC	AOLGN22202DN*	R	
				1NO-1NC	AOLGN21611DN*	G	
		Maintained	100/110V AC	2N0	AOLGN21620DN*	Y A	
				2NC	AOLGN21602DN*	S	
				1NO-1NC	AOLGN22611DN*	PW	
With transformer			200/220V AC	2N0	AOLGN22620DN*		
(100/110V AC)				2NC	AOLGN22602DN*		
xtended with Full Shroud				1NO-1NC	ALFN22211DN*		
LFN2			24V AC/DC	2N0	ALFN22220DN*		
OLFN2				2NC	ALFN22202DN*	R	
				1NO-1NC	ALFN21611DN*	G	
		Momentary	100/110V AC	2N0	ALFN21620DN*	Υ	
		,		2NC	ALFN21602DN*	⊢ A S	
				1NO-1NC	ALFN22611DN*	S PW	
			200/220V AC	2NO	ALFN22620DN*	- · · · ·	
(24V AC/DC)			LUGILLUT AU	2NC	ALFN22602DN*	\dashv	
	BA9S			1NO-1NC	AOLFN22211DN*		
			24V AC/DC	2NO	AOLFN22220DN*		
The state of			24V AU/DU	2NC	AOLFN2220DN*		
						⊢ R G	
		Maintained	100/110// 40	1NO-1NC	AOLFN21611DN*	$ \overset{a}{Y}$	
		Maintained	100/110V AC	2NO	AOLFN21620DN*	_ A	
				2NC	AOLFN21602DN*	S	
With transformer			000/000/110	1NO-1NC	AOLFN22611DN*	PW	
			200/220V AC	2N0	AOLFN22620DN*	1	

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S
- (blue), PW (pure white)

 Illuminated pushbuttons have an LED lamp installed.
 Round bezel (metal): Chrome-plated
- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- See B-308 for other contact configurations and gold-plated silver contacts.
 See B-314 for bottom view.
 Terminal screws: M3.5

- · Integrated terminal cover

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature

Pilot Lights

TWND ARN

CS

LED Illuminated Mushroom (ø40)/Mushroom Pushlock Turn Reset/Mushroom Push Turn Lock

Package Quantity: 1

						га	ckage Quantity: 1
Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code	Dimensions Page
Mushroom (ø40)				1NO-1NC	ALN32211DN *		
ALN3 AOLN3			24V AC/DC	2N0	ALN32220DN *		
AULINS				2NC	ALN32202DN *	R	
				1NO-1NC	ALN31611DN *	G	
		Momentary	100/110V AC	2N0	ALN31620DN *	Y	
				2NC	ALN31602DN *	ŝ	
				1NO-1NC	ALN32611DN *	PW	
			200/220V AC	2N0	ALN32620DN *		
(24V AC/DC)	DAGC			2NC	ALN32602DN *		
	BA9S			1NO-1NC	AOLN32211DN *		
			24V AC/DC	2N0	AOLN32220DN *		
				2NC	AOLN32202DN *	R	
				1NO-1NC	AOLN31611DN *	G	
		Maintained	100/110V AC	2N0	AOLN31620DN *	Y	
				2NC	AOLN31602DN *	S	
				1NO-1NC	AOLN32611DN *	PW	
With tranformer			200/220V AC	2N0	AOLN32620DN *		
(100/110V AC)				2NC	AOLN32602DN *		B-315
Mushroom Pushlock Turn Reset				1NO-1NC	AVLN32211DN *		D-313
AVLN3 (*1)			24V AC/DC	2N0	AVLN32220DN *		
				2NC	AVLN32202DN *		
				1NO-1NC	AVLN31611DN *]	
	BA9S	_	100/110V AC	2N0	AVLN31620DN *	R	
				2NC	AVLN31602DN *		
				1NO-1NC	AVLN32611DN *		
			200/220V AC	2N0	AVLN32620DN *]	
(24V AC/DC)				2NC	AVLN32602DN *		
Mushroom Push Turn Lock				1NO-1NC	AJLN32211DN *		
AJLN3			24V AC/DC	2N0	AJLN32220DN *]	
				2NC	AJLN32202DN *	R	
				1NO-1NC	AJLN31611DN *	G	
	BA9S	_	100/110V AC	2N0	AJLN31620DN *	Ϋ́	
				2NC	AJLN31602DN *	A	
				1NO-1NC	AJLN32611DN *	PW	
			200/220V AC	2N0	AJLN32620DN *]	
(24V AC/DC)				2NC	AJLN32602DN *]	

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)
- Illuminated pushbuttons have an LED lamp installed.
- Round bezel (metal): Chrome-plated
- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- See B-308 for other contact configurations and gold-plated silver contacts.
- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN or HN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- Terminal screws: M3.5
- · Integrated terminal cover

Illuminated pushbutton operation

6V, 12V, 24V AC/DC

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

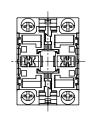
Push Turn Lock

Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

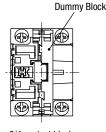
Bottom View (for illuminated pushbuttons, selector switches, and pilot lights)

Voltage Adapter

1 contact block



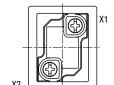
3 contact blocks



2/4 contact blocks



100/110V, 200/220V AC



110V DC, 380V AC or over

DC-DC converter unit Terminal No. X1: positive Terminal No. X2: negative

• See B-348 for wiring.

Control Boxes

Safety Products

Power Supplies

LED Illumination

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

TWND ARN CS

Controllers Operator Interfaces Sensors AUTO-ID

Emergency Stop Switches

> Enabling Switches

Dimensions (Illuminated Pushbuttons)

Extended, LED illuminated (momentary/maintained)

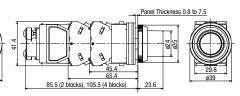
All dimensions in mm.

ALN2/AOLN2 (terminal screws M3.5)

Integrated terminal cover

6, 12, 24V AC/DC · Without LED Lamp

100/110V AC, 200/220V AC (240V AC or below)



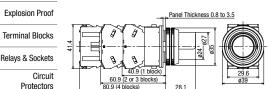
Extended with Half Shroud, LED illuminated (momentary/maintained)

6, 12, 24V AC/DC· Without LED Lamp

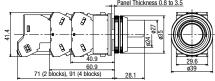
Integrated terminal cover 100/110V AC, 200/220V AC (240V AC or below)

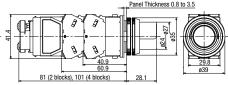
110V DC/380V AC or over

110V DC/380V AC or over



ALGN2/AOLGN2 (terminal screws M3.5)



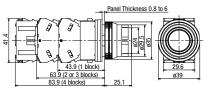


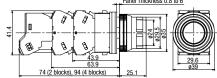
Extended with Full Shroud, LED illuminated (momentary/maintained) ALFN2/AOLFN2 (terminal screws M3.5) Integrated terminal cover

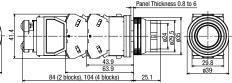
6, 12, 24V AC/DC · Without LED Lamp

100/110V AC, 200/220V AC (240V AC or below)

110V DC/380V AC or over





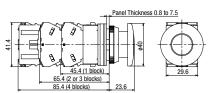


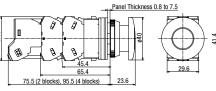
Mushroom (ø40), LED illuminated (momentary/maintained) ALN3/AOLN3 (terminal screws M3.5) Integrated terminal cover

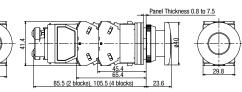
6, 12, 24V AC/DC · Without LED Lamp

100/110V AC, 200/220V AC (240V AC or below)

110V DC/380V AC or over



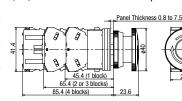


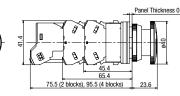


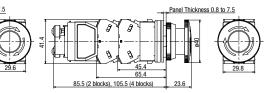
Mushroom Pushlock Turn Reset, LED illuminated

AVLN3 (terminal screws M3.5) 6, 12, 24V AC/DC · Without LED Lamp Integrated terminal cover

100/110V AC, 200/220V AC 110V DC/380V AC or over





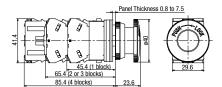


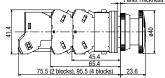
Mushroom Push Turn Lock, LED illuminated

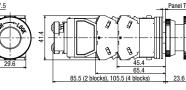
AJLN3 (terminal screws M3.5)

Integrated terminal cover

6, 12, 24V AC/DC · Without LED Lamp 100/110V AC, 200/220V AC







110V DC/380V AC or over



Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWND

ARN

CS

ASN Selector Switches (Knob Operator)

Knob Operator

Package Quantity: 1

Shape	Knob Opera ASN	tor					4						
		Contact C	Configuratio	n			Maintained	Spring Return from Right		Spring	Retur	n from	Left
		Contact	Block	C	perat Positio	tor on	1 2	1 • 2	Contact	Block		rator ition	1, 2
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2	
	1NO	1	NO		•		ASN210N	ASN2110N	①	NO	•		ASN2210N
90°	(10)	2	_	Dur	$\overline{}$	Block	ACITATION	AONZTION	2	_	-		AONEETON
2-position	1NO-1NC	0	NO		•	4	ASN211N	ASN2111N	0	NO	•		ASN2211N
	(11)	2	NC	•			7101121111	7.0.1.2	2	NC	_	•	71011221111
	2N0	①	NO		•		ASN220N	ASN2120N	0	NO	•		ASN2220N
	(20)	2	NO		•				2	NO NO	•		
		①	NO NO	_	•	-			0	NO NO	•		
	2NO-2NC	2	NC	•		-	ASN222N	ASN2122N	2	NC		•	ASN2222N
	(22)	3	NO NO		•	-			3	NO NO	•		
		4	NC	•				Spring Return	4	NC		•	Spring Return
		Contact C	Configuration				Maintained	from Right	Spring	g Return fro	om Lef	t	Two-way
	Contact	Contact	Block)perat Positio		1 0 2	1 0 2		1, 0 2			1, 0, 2
	Comaci	Mounting Position	Contact	1	0	2				\bigvee			
	2N0	1	NO	•			ASN320N	ASN3120N		ASN3220N			ASN3320N
	(20)	2	NO			•	ASIVOZUIV	AONOTZON		AUNUZZUI	V		AUNUUZUN
	2NC	①	NC				ASN302N	ASN3102N		ASN3202N	d.		ASN3302N
	(02)	2	NC				AONOOZN	AONOTOZN		AONOZOZI			AONOOOZIV
		0	NO	•			-						
	2NO-2NC	2	NO		_	•	ASN322N	ASN3122N		ASN3222N	V		ASN3322N
45°	(22)	3	NC										
3-position		4	NC			1							
		①	NO	•		-							
	4NO	2	NO	-		•	ASN340N	ASN3140N		ASN3240N	V		ASN3340N
	(40)	3	NO	•							-		7.0
		4)	NO			•							
		①	NC										
	4NC	2	NC			<u> </u>	ASN304N	ASN3104N		ASN3204N	V.		ASN3304N
	(04)	3	NC				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,0,10,10,11		01102041	-		7.0.1.000-114
		4	NC			1							
		1	NO	•			.						
	☆	2	NO			•	☆ ASN33SN-243	_		_			_
	3S	3	NC		•		A01100011-240						_ _
		4	_	Dur	nmy E	Block							

- Knob: Black
- Round bezel (metal): Chrome-plated
- Selector switches with 1 or 3 contact blocks have a dummy block.
- Knob operator can be installed at 45-degree intervals in addition to the positions shown in the above table.
- See B-321 to B-322 for other contact configurations. Turn the operator to each position accurately.

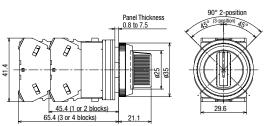
- Selector switches with \$\sigma\$ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
- See B-312 for bottom view.

Contact Block Mounting Position



Dimensions

All dimensions in mm.



Terminal Screws: M3.5

Terminal cover: integrated

ASN-□ Selector Switches (Lever Operator)

Package Quantity: 1

Lever Operator ASN□L Shape APEM Spring Return Contact Configuration Spring Return from Left Maintained from Right Control Boxes Operator Operator Contact Block Contact Block Position Position Emergency Contact Stop Switches Mounting Mounting Contact 2 1 Contact Enabling Position Position Switches 1N0 1 NO • 1 NO ASN2L10N ASN21L10N ASN22L10N Safety Products (10)2 **Dummy Block** 2 2-position 1NO-1NC 1 NO 1 NO • **Explosion Proof** ASN2L11N ASN21L11N ASN22L11N (11)2 NC • 2 NC • Terminal Blocks • 1 1 N0 NO 2N0 ASN2L20N ASN21L20N ASN22L20N (20)2 NO 2 NO Relays & Sockets 1 NO 1 N0 Circuit 2 2 2NO-2NC NC • NC lacktriangleProtectors ASN2L22N ASN21L22N ASN22L22N (22)3 NO • 3 NO • **Power Supplies** 4 NC • 4 NC • Spring Return Spring Return LED Illumination Contact Configuration Maintained Spring Return from Left from Right Two-way Controllers **Operator** Contact Block Position Operator Contact Mounting Contact 1 2 0 Position Sensors 1 NO • 2N0 ASN3L20N ASN31L20N ASN32L20N ASN33L20N AUTO-ID (20)2 NO • 1 NO 2NC ASN3L02N ASN31L02N ASN33L02N ASN32L02N (02)2 N0 1 NO Flush Silhouette 2NO-2NC 2 NO ASN3L22N ASN31L22N ASN32L22N ASN33L22N (22)3 NO 45° ø16 3-position 4 NO 1 NO ø22 2 NO • 4N0 ASN3L40N ASN31L40N ASN32L40N ASN33L40N (40)3 N0 • 4 NO Miniature 1 NO Pilot Lights 4NC 2 N0 ASN3L04N ASN31L04N ASN32L04N ASN33L04N (04)3 NO 4 N0 1 N0 ☆ 3S NO 2 ASN3L3SN-243 3 NO

Lever: Black

TWND

ARN

CS

- Round bezel (metal): Chrome-plated
- Selector switches with 1 or 3 contact blocks have a dummy block.

4

Knob operator can be installed at 45-degree intervals in addition to the positions shown in the above table.

Dummy Block

See B-321 to B-322 for other contact configurations.
 Turn the operator to each position accurately.

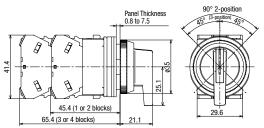
- Selector switches with
 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold contact.
- See B-312 for bottom view.

Contact Block Mounting Position



Dimensions

All dimensions in mm.



Terminal Screws: M3.5

Terminal cover: integrated

ASN-□**K** Key Selector Switches

Key Selector (Key No. 0)

Package Quantity: 1

Shape	ASN□K	(- 7 7												ghts
								Spring Return	I					APEM Switches &
		Contact C	onfiguration	n			Maintained	from Right		Spring	Returr	from l	Left	Pilot Lights
	_	Contact	Block)perat Positio		1 2	1 + 2	Contact	Block		rator	2 بد1	Control Boxes Emergency
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2		Stop Switches Enabling
	1NO	①	NO		•				①	NO	•			Switches
90°	(10)	2	_	Dur	nmy E	Block	ASN2K10N	ASN21K10N	2	_	-	_	ASN22K10N	Safety Products
2-position	1NO-1NC	①	NO		•		ASN2K11N	ASN21K11N	①	NO	•		ASN22K11N	Explosion Proof
	(11)	2	NC	•			ASNZKITN	AONZIKIIN	2	NC		•	ASNZZKITN	Explosion 1 1001
	2N0	①	NO		•		ASN2K20N	ASN21K20N	0	NO	•		ASN22K20N	Terminal Blocks
	(20)	2	NO NO		•				2	NO	•			Relays & Sockets
		①	NO NO		•	-			①	NO NO	•		_	Circuit
	2NO-2NC (22)	3	NC NO	•	•	-	ASN2K22N	ASN21K22N	3	NC NO	•	•	ASN22K22N	Protectors
	(22)	(4)	NC NC	•		-			3	NC NC		•	_	Power Supplies
			configuration				Maintained	Spring Return from Right		g Return fro	om Lef		Spring Return Two-way	LED Illumination
		Cambaal	Dlask)perat	or							line may	Controllers
	Contact	Contact Mounting	Contact	1	Positio	on 2	1 0 2	1 0 2		1 0 2			1,0,2	Operator Interfaces
		Position			0									Sensors
	2N0 (20)	① ②	NO NO	•		•	ASN3K20N	ASN31K20N		ASN32K20	N		ASN33K20N	AUTO-ID
	2NC	0	NC			_								1
	(02)	2	NC		5		ASN3K02N	ASN31K02N		ASN32K02	N		ASN33K02N	
		①	NO	•										1
	2NO-2NC	2	NO			•	AGNOVOGN	AONOAKOON		AONOOKOO			ACNICOLOGNI	Flush Silhouette
45°	(22)	3	NC				ASN3K22N	ASN31K22N	,	ASN32K22	N		ASN33K22N	-10
3-position		4	NC											ø16 ————————————————————————————————————
		1	NO	•										ø22
	4N0	2	NO			•	ASN3K40N	ASN31K40N		ASN32K40	N		ASN33K40N	ø30
	(40)	3	NO	•		-								
	-	4	NO NO											Miniature
	4110	① ②	NC NC											Pilot Lights
	4NC (04)	3	NC NC			_	ASN3K04N	ASN31K04N		ASN32K04	N		ASN33K04N	l — ,
	(3.)	<u> </u>	NC				1							
		0	NO	•										1
	☆ 3S	2	NO			•	☆							TWN
	35	3	NC		•		ASN3K3SN-243	_		_			_	TWND
		4	_	Dur	nmy E	Block								

- Cylinder: Chrome-plated
- Round bezel (metal): Chrome-plated
- Key selector switches with 1 or 3 contact blocks have a dummy block.
- See B-321 to B-322 for other contact configurations.
- On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See $\ensuremath{\text{B-308}}$ for specifying key retained positions.

Contact Block Mounting Position



- Key selector switch is supplied with two standard keys.
 (1) Insert the key completely before turning the key, otherwise failure may result.
 (2) Turn the operator to each position accurately.

- Different key number is available upon request. Contact IDEC. \bullet Selector switches with $\stackrel{\iota}{\bowtie}$ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
 See B-312 for bottom view.

Dimensions

All dimensions in mm. 90° 2-position Panel Thickness 16.5 45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks)

Terminal Screws: M3.5

Terminal cover: integrated

ARN

CS

ASN-□K Key Selector Switches

Package Quantity: 1

Key Selector (Key No. 24401) ASN□K Shape APEM Spring Return **Contact Configuration** Maintained Spring Return from Left from Right Control Boxes Operator Operator Contact Block Contact Block Position Position Emergency Contact Mounting Mounting Stop Switches Contact 1 2 Contact 1 2 Position Position Enabling Switches 1N0 1 NO lacktriangleASN2K10N-ASN21K10N-1 NO ASN22K10N-Safety Products (10)N024401 N024401 N024401 2 **Dummy Block** 2 1NO-1NC 1 NO ASN2K11N-ASN21K11N-1 NO • ASN22K11N-2-position **Explosion Proof** N024401 (11)2 NC • N024401 N024401 2 NC Terminal Blocks 2N0 1 NO • ASN2K20N-ASN21K20N-1 NO • ASN22K20N-N024401 N024401 (20)2 NO • N024401 2 NO • Relays & Sockets 1 NO lacktriangle1 NO • Circuit 2NO-2NC 2 NC • ASN2K22N-ASN21K22N-2 NC • ASN22K22N-Protectors N024401 N024401 N024401 (22)3 NO • 3 NO • **Power Supplies** 4 NC 4 • NC Spring Return Spring Return LED Illumination **Contact Configuration** Maintained Spring Return from Left from Right Two-way Controllers **Operator** Contact Block Position Operator Contact Mounting Interfaces Contact 1 0 2 Position Sensors 2N0 1 NO ASN3K20N-ASN31K20N-ASN32K20N-ASN33K20N-N024401 N024401 N024401 N024401 AUTO-ID (20)2 N0 1 NC 2NC ASN3K02N-ASN31K02N-ASN32K02N-ASN33K02N-N024401 (02)N024401 N024401 N024401 2 NC 1 NO 2 N0 Flush Silhouette 2NO-2NC ASN3K22N-ASN31K22N-ASN32K22N-ASN33K22N-N024401 N024401 N024401 N024401 (22)NC 3 45° ø16 4 NC 3-position ① N0 ø22 2 N0 • 4N0 ASN3K40N-ASN31K40N-ASN32K40N-ASN33K40N-(40)N024401 N024401 N024401 N024401 3 NO • 4 NO Miniature 1 NC Pilot Lights NC 4NC 2 ASN3K04N-ASN31K04N-ASN32K04N-ASN33K04N-(04)3 NC N024401 N024401 N024401 N024401 4 NC 1 NO 2 NO • ☆ ASN3K3SN-

243-N024401

- Cylinder: Chrome-plated
- Round bezel (metal): Chrome-plated

38

• Key selector switches with 1 or 3 contact blocks have a dummy block.

3

4

- See B-321 to B-322 for other contact configurations.
- On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See B-308 for specifying key retained positions.

NC

Dummy Block

Contact Block Mounting Position



- Key selector switch is supplied with two standard keys.
- (1) Insert the key completely before turning the key, otherwise failure may result.
- (2) Turn the operator to each position accurately.
- Different key number is available upon request. Contact IDEC.
- Selector switches with
 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
- See B-312 for bottom view.

Dimensions

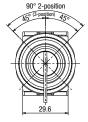
Panel Thickness 0.8 to 7.5

Panel Thickness 0.8 to 7.5

45.4 (1 or 2 blocks) 16.5 39

Terminal Screws: M3.5

All dimensions in mm.



Terminal cover: integrated

TWND

ARN

CS

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWND ARN

CS

ASLN Illuminated Selector Switches (LED)

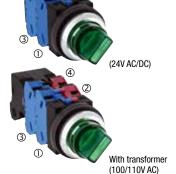
Package Quantity: 1

														rackaye u	uunuty. 1	,
Shape	Illuminate ASLN	ed Selector	Switches	s (BA	19 S	Base)	(24V AC/DC)								
		Contact Co	onfigurati	on				Maintained	Spring Return from Right		Sprin	ng Ret	urn fro	om Left		
		Contact	Block		oera ositi	ator ion	Rated Voltage	1 2	1 2	Contact	Block	Ope Pos	rator	1. 2	Color	
	Contact	Mounting Position	Contact	1	2		Joinage			Mounting Position	Contact		2			
등	4110 4110	①	NO		•	,	24V AC/DC	ASLN22211DN*	ASLN212211DN*	0	NO	•		ASLN222211DN*		1
2-position	1NO-1NC	2	NC	•			100/110V AC	ASLN21611DN*	ASLN211611DN*	2	NC		•	ASLN221611DN*	1	-
2-p	(11)						200/220V AC	ASLN22611DN*	ASLN212611DN*					ASLN222611DN*	R	١.
06	ONIO	1	NO)	24V AC/DC	ASLN22220DN*	ASLN212220DN*	1	NO	•		ASLN222220DN*	G	l
6,	2NO (20)	2	NO		•	•	100/110V AC	ASLN21620DN*	ASLN211620DN*	2	NO	•		ASLN221620DN*	Υ	-
	(20)						200/220V AC	ASLN22620DN*	ASLN212620DN*					ASLN222620DN*	Α	l
		1	NO)	24V AC/DC	ASLN22222DN*	ASLN212222DN*	1	NO	•		ASLN222222DN*	S	-
	2NO-2NC	2	NC	•			100/110V AC	ASLN21622DN*	ASLN211622DN*	2	NC		•	ASLN221622DN*	PW	١.
	(22)	3	NO		•	7	200/220V AC	ASLN22622DN*	ASLN212622DN*	3	NO	•		ASLN222622DN*]	
		4	NC	•			_	_	_	4	NC		•	_] -
		Contact Co	onfigurati	on				Maintained	Spring Return from Right	Spring	Return f	rom L	eft	Spring Return Two-Way		-
	Contact	Contact	Block		pera osit	ator ion	Rated Voltage	1 0 2	1 0 2		1, 0	2		1,0,2	Color Code	-
	Comaci	Mounting Position	Contact	1	0	2		\bigvee				/				
	ONIO	1	NO	•			24V AC/DC	ASLN32220DN*	ASLN312220DN*	ASL	N32222	ODN*		ASLN332220DN*		1.
	2NO (20)	2	NO			•	100/110V AC	ASLN31620DN*	ASLN311620DN*	ASL	N32162	ODN*		ASLN331620DN*		l
	(20)						200/220V AC	ASLN32620DN*	ASLN312620DN*	ASL	N32262	ODN*		ASLN332620DN*		۱.
	2NC	1	NC				24V AC/DC	ASLN32202DN*	ASLN312202DN*	ASL	N32220	2DN*		ASLN332202DN*		l
45° 3-position	(02)	2	NC				100/110V AC	ASLN31602DN*	ASLN311602DN*	ASL	N32160	2DN*		ASLN331602DN*		-
iso	(02)						200/220V AC	ASLN32602DN*	ASLN312602DN*	ASL	N32260	2DN*		ASLN332602DN*		ļ
3-6		1	NO	•			24V AC/DC	ASLN32222DN*	ASLN312222DN*	1	N32222			ASLN332222DN*	R	l
:5°	2NO-2NC	2	NO			•	100/110V AC	ASLN31622DN*	ASLN311622DN*		N32162			ASLN331622DN*	G	-
7	(22)	3	NC				200/220V AC	ASLN32622DN*	ASLN312622DN*	ASL	N32262	2DN*		ASLN332622DN*	Υ	١.
		4)	NC						_					_	A	l
		①	NO	•			24V AC/DC	ASLN32240DN*	ASLN312240DN*		N32224			ASLN332240DN*	S	-
	4N0	2	NO			•	100/110V AC	ASLN31640DN*	ASLN311640DN*		N32164			ASLN331640DN*	PW	
	(40)	3	NO	•		_	200/220V AC	ASLN32640DN*	ASLN312640DN*	ASL	N32264	ODN*		ASLN332640DN*	-	П
		4	NO	_		•	_		_					_	-	П
		0	NC		L		24V AC/DC	ASLN32204DN*	ASLN312204DN*	1	N32220			ASLN332204DN*		
	4NC	2	NC			_	100/110V AC	ASLN31604DN*	ASLN311604DN*		.N32160			ASLN331604DN*	-	-
	(04)	3	NC	_	L	-	200/220V AC	ASLN32604DN*	ASLN312604DN*	ASL	N32260	4DN*		ASLN332604DN*	-	l
	1	(4)	NC				_	_	_	1	_			_		1 -

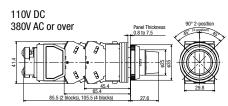
- Specify a color code in place of * in Part No.
- R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)
- Illuminated selector switches have an LED lamp installed.
- Round bezel (metal): chrome-plated
- See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
 Illuminated selector switches of 24V AC/DC or below with 2 or 4 contact blocks have a
- See B-321 to B-322 other contact configurations.
- Turn the operator to each position accurately.
- See B-309 for gold-plated silver contacts.
- . See B-314 for bottom view.

Contact Block Mounting Position Dimensions

6, 12, 24V AC/DC Without LED Lamp



100/110V AC, 200/220V AC (240V AC or below)



Terminal Screws: M3.5

Terminal cover: integrated

All dimensions in mm.

► Download catalogs and CAD from http://eu.idec.com/downloads

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

> TWND ARN CS

Selector Switches Contact Configuration (90° 2-position)

					Op	perator Opera	tion and Circ	uit	
		Cont		Maint	tained 2		Return Right	Spring from	Return Left 2
0		Blo	ck				/		
Contact Configuration	Circuit Code			Knob Lever	Key	Knob Lever	Key	Knob Lever	Key
				Operator	Position	Operato	Position	Operator	Position
		Mounting	Contact	1	2	1	2	1	2
		Position							
10	Not	①	NO		•		•	•	
10	required	2	_	Dumm	y Block	Dumm	y Block	Dumm	y Block
01	Not	①	NC	•		•			•
01	required	2		Dumm	y Block	Dumm	y Block	Dumm	y Block
	☆	①	EM			(
2R	118	2	LB						
^{∠n}	☆	①	EM						
	168	2	LB						

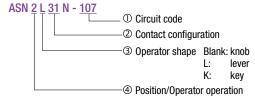
						Op	erator O	peration	and Circ	uit		
		Cont Blo		N	Maintair 1	ned , 2		ring Retrom Righ			ring Ret from Lef	
Contact Configuration	Circuit Code			Knob Lever	Key	Illumi- nated	Knob Lever	Key	Illumi- nated	Knob Lever	Key	Illumi- nated
				Ope	rator Po	osition	Oper	ator Pos	ition	Opei	ator Pos	sition
		Mounting Position	Contact	1	,	2	1		2	1		ر ا
11	Not	①	NO			•			•	•		
11	required	2	NC	•			•					•
20	Not	1	NO			•			•	•		
20	required	2	NO			•			•	•		
02	Not	①	NC	•			•					•
02	required	2	NC	•			•					•
		①	NO			•			•	•		
22	Not	2	NC	•			•					•
22	required	3	NO			•			•	•		
		4	NC	•			•					•
		1	NC	•			•					•
31	107	2	NO			•			•	•		
31	107	3	NO			•			•	•		
		4	NO			•			•	•		
		①	NO			•			•	•		
40	Not	2	NO			•			•	•		
40	required	3	NO			•			•	•		
		4	NO			•			•	•		

[•] Selector switches with 🜣 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

Contact Block Mounting Position

Part No. Development





- 2: 2-position, maintained
- 21: 2-position, spring return from right 22: 2-position, spring return from left

Selector Switches Contact Configuration (45° 3-position)

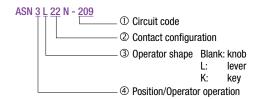
Contact Configuration Contact Doporator Position Maintained Contact Configuration Mounting Contact Contact Configuration Mounting Contact												perato	r Opera	tion a	nd Circu	ıit				Ë
Configuration Contact Color Company Contact Color Company Contact Color Company Contact Color Contact Color Color Contact Color Contac	Contact	Circuit Codo			Оре	erator Pos	sition				fr	om Rig	ht		from Le	eft	T	wo-wa	y	jhts
Mounting Position Contact 1		Circuit Code							\bigvee			\bigvee			$\overline{}$	1		$\overline{}$		ΔΡΕΜ
202				Contact		_			Key			Key						Key		Switches &
11 203			ı ı	NO	_	U														
11		202						1	√			√			√			√		
Sometimes Some	11	203	1)									J			٠					
20	''	200					•		v			V			v					Switches
Not required 20 NO		303				•		1	√			√			√			√		Safety Products
20		Net					•				-					-				
Not required O	20				•			┨	$\sqrt{}$			$\sqrt{}$			$\sqrt{}$			$\sqrt{}$		Explosion Proof
O		i													,	-				Terminal Blocks
Not required	02								√			٧			√			√		Relays & Sockets
Not required 30 NC 40 NC					•															
Power Supplies Powe									V			V			V			V		
209 O NO		required						┨	·			•			·			•		Power Supplies
209																				LED Illumination
29								1	,											LED IIIdiiiiiddoii
22 210		209						1	√			√			_			_		
22 210			4				•	<u> </u>												Operator
22 210 3 NC 4 NO AUTO-ID 310 0 NC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								1												
AJTO-ID AJTO-ID	22	210						1	√			V			√			√		Sensors
310								-												AUTO-ID
310						•														
310 3							•	1	,											
40		310				•]	V			_			_			_		Florib O'lloron Ho
311							•													Flush Silhouette
311 3					•		-													ø16
40 Not		311					•	-	√			√			√			√		ø22
A0					_			-												
A0					-															ø30
10		Not					•	1	,			,			,			,		Miniature
Mot required Mo Mo Mo Mo Mo Mo Mo M	40			NO	•]	V			V			√			V		Pilot Lights
04							•													
104 required 3 NC								<u> </u>												
3S 243 3 NC	04							-	√			√			√			√		
3S		required						+												TWN
3S																				TWND
3S 243 3 NC		☆			T -		•	1	,											I WIND
W W	38	243				•] '	/	-		_			_			_		ARN
																				CS

[•] Selector switches with 🜣 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

Contact Block Mounting Position

Part No. Development





- 3: 3-position, maintained
- 31: 3-position, spring return from right
- 32: 3-position, spring return from left
- 33: 3-position, spring return two-way

[•] On selector switches with ☆, the contact blocks may overlap each other while turning the ring or lever operator.

Control Boxes Emergency Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator

ASBN2 Selector Pushbuttons

Shape	Contact Configuration	Circuit Code	Con Blo	tact ock	Left	$\overline{}$	Position	Right	Button Color Code	Ring Operator				
			Mounting Position	Contact	Normal		outton Normal	Push	oodo	Part No. (Ordering No.)				
Ring Operator (90°2-position)		A03	1	NO		•		•		ASBN211N-A03*				
ASBN2		A03	2	NC	•					ASDIVZ I TIV-AUS**				
	11	☆	①	NC	•				В	☆				
	(1NO-1NC)	K04	2	EM		•			G	ASBN211N-K04*				
		G03	1	NO NO		•		Blocked	R Y	ASBN211N-G03*				
		400	2	NC	•		•		ĭ	NODILLITI GOO				
	20	D01	①	NO		•				ASBN220N-D01*				
	(2NO)		2	NO				•		NODITEE ON DOT				
1			1	NO NO		•		•						
		A08	2	NC	•					ASBN222N-A08*				
			3	NO		•		•		7.05.1221.7.00				
			4	NC	•									
			①	NO		•		•						
		☆	2	NO NO				•		☆				
		C10	3	NC	•					ASBN222N-C10*				
			4	NC										
			1	NO		•								
		D10	D10	D10	D10	D10	2	NO NO				•		ASBN222N-D10*
		5.0	3	NC	•									
			4	NC			•							
			①	NO		•			В					
	22	☆	2	NO				•	G	☆				
	(2NO-2NC)	E10	3	NC					R Y	ASBN222N-E10*				
			4	NC					ĭ					
			①	NO				•						
		☆	2	NO		•				☆				
		F10	3	NC			•			ASBN222N-F10*				
			4	NC	•									
			①	NO		•								
		G10	2	NO NO		•		Blocked		ASBN222N-G10*				
		""	3	NC	•		•			. IODITELEIT GTO				
			4	NC	•		•							
			1	NC	•									
		☆	2	NC	•					☆				
		K15	3	EM		•				ASBN222N-K15*				
			(4)	l EM		•								

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

TWND

Miniature Pilot Lights

ARN

CS

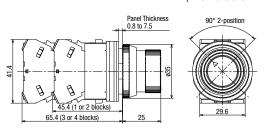
- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Bezel (metal): Chrome-plated
- Circuit code G: The pushbutton does not operate when the ring operator is turned to the right position.
- Circuit codes E and F: The right and left NC contact blocks on circuit code E or F may overlap each other while turning the ring operator. The NO and NC contact blocks on circuit code F may overlap each other while pressing the button.
- When using the selector pushbutton, do not turn the ring operator with the pushbutton depressed. Otherwise, damage or failure may be caused.
- Selector switches with 🛱 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-312 for bottom view.

Contact Block Mounting Position



Dimensions Ring operator (90° 2-position)

(All dimensions in mm.)



Terminal Screws: M3.5

Terminal cover: integrated

Pilot Lights Round, Square Extended, Rectangular (Marking)

Package Quantity: 1

Shape	Illumination	Base	Rated Voltage	Part No. (Ordering No.)	Color Code	LED Lamp Part No.	Dimensions Page
Round			24V AC/DC	APN122DN*	R, G, Y, A, S, PW	LSRD-2	
APN1			100/110V AC	APN116DN*	R, G, Y, A, S, PW		
(24V AC/DC)	LED	BA9S	200/220V AC	APN126DN*	R, G, Y, A, S, PW	LSRD-6	
Square Extended UPQN3B			24V AC/DC	UPQN3B22D*	R, G, Y, A, S, PW	LSRD-2	
	LED	BA9S	100/110V AC	UPQN3B16D*	R, G, Y, A, S, PW	LSRD-6	B-325
(24V AC/DC)			200/220V AC	UPQN3B26D*	R, G, Y, A, S, PW	L9KD-0	
Rectangular (Marking) UPQN4			24V AC/DC	UPQN422D*	R, G, Y, A, S, PW	LSRD-2	
	LED	BA9S	100/110V AC	UPQN416D*	R, G, Y, A, S, PW		
(24V AC/DC)			200/220V AC	UPQN426D*	R, G, Y, A, S, PW	LSRD-6	

• Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)

- Round bezel (metal): chrome-plated
- Square bezel (metal): chrome-plated
- Pilot lights have an LED lamp installed.
- On the rectangular marking pilot light, a clear lens and a color marking plate (white) are used for W (white) illumination.
- See B-346 for the marking plate size of rectangular pilot lights.
- See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- Terminal cover is installed on pilot lights for electric shock prevention.

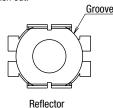
Type	Terminal Cover	Quantity
6V, 12V, 24V AC/DC	APN-PVL	1
100V/110V AC, 200/220V AC	N-VL3	1
110V DC	N-VL3	1

Note: DC-DC converter types are not approved by UL and CSA, and not CE compliant.

• See B-314 for bottom view.

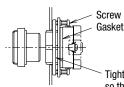
Reflector

- 1. The lamp housing of the square LED illuminated pilot lights has a built-in reflector.
- 2. Make sure that the reflector does not fall off when removing the lens or making plate.
- 3. When replacing the LED lamp of UPQN4 (rectangular), use a lamp holder tool (OR-55).
- 4. To remove the reflector, insert a flat screwdriver inside the groove of the reflector and lightly push out.



Panel Mounting of Square Pilot Lights

- 1. Tighten the square bezel to the operator and position the bezel correctly.
- 2. Lightly tighten the screw to secure the pilot light on the panel.
- 3. After tightening, do not turn the square bezel, otherwise it may fall off.



Tighten the screw lightly so that the panel does not bend. Recommended tightening torque: 0.15 Nm APEM

Control Boxes Emergency

Stop Switches Enabling Switches Safety Products

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit Protectors

> **Power Supplies** LED Illumination

Controllers

Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

TWND

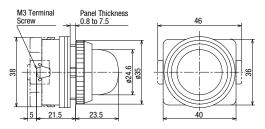
ARN CS

Dimensions (Pilot Light)

All dimensions in mm

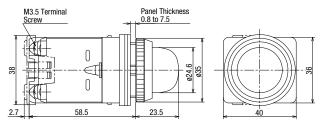
Round APN1

6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp



Terminal screws: M3

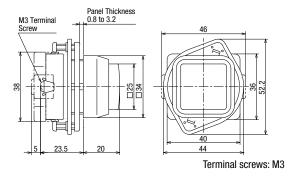
100 to 480V AC, 110V DC (Terminal Cover: N-VL3)



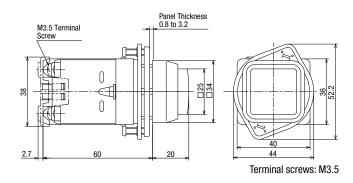
Terminal screws: M3.5

Square Extended UPQN3B

6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp

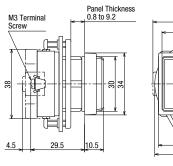


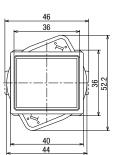
100 to 480V AC, 110V DC (Terminal Cover: N-VL3)



Flush Silhouette Rectangular (Marking)
UPQN4

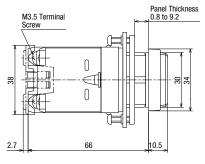
6V, 12V, 24V AC/DC (Terminal Cover: APN-PVL) Without LED Lamp

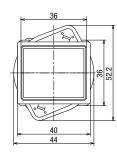




Terminal screws: M3

100 to 480V AC, 110V DC (Terminal Cover: N-VL3)





Terminal screws: M3.5

• See B-349 for wiring.

For more information, visit http://eu.idec.com

APEM
Switches &
Pilot Lights
Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks
Relays & Sockets

Circuit Protectors

LED Illumination

Controllers

Operator Interfaces Sensors

AUTO-ID

Miniature Pilot Lights

TWND

ARN

CS

Flush/Extended/Extended with Half Shroud/Extended with Full Shroud

Package Quantity: 1

		·	1	Υ		Package Quantity: 1	. ≝
Shape	Operation	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)	ot Lights
Flush		1NO	ABD110N*	В			0,
ABD1 AOD1		1NC	ABD101N*	G			
AODI	Momentary	1NO-1NC	ABD111N*	R Y			APEM
	Womentary	2N0	ABD120N*	S	Pane 0.8	el Thickness to 7.5 ø39	Switches &
		2NC	ABD102N*	W			Pilot Lights
		2NO-2NC	ABD122N*	Note			Control Boxes
		1NO	A0D110N*	В			Emergency
		1NC	A0D101N*	G R	45.4 (1 or 2 blocks)	29.4	Stop Switches
	Maintained	1NO-1NC	A0D111N*	Y	65.4 (3 or 4 blocks) 9	40	Enabling Switches
		2N0	A0D120N*	S			
		2NC	A0D102N*	W Note			Safety Products
Extended		2NO-2NC	ADDITION:	Note			Explosion Proof
ABD2		1NO 1NC	ABD210N*	В			Terminal Blocks
AOD2		1NO-1NC	ABD201N* ABD211N*	- G			
	Momentary	2N0	ABD211N* ABD220N*	R Y	Pani	el Thickness	Relays & Sockets
		2NC	ABD220N*	S	0.8	0 7.5 039	Circuit
		2NO-2NC	ABD222N*	W			Protectors
		1NO	AOD210N*		4	6224	Power Supplies
		1NC	A0D201N*	В	B B		LED Illumination
		1NO-1NC	A0D211N*	- G R	45.4 (1 or 2 blocks) 65.4(3 or 4 blocks) 14	29.4	
	Maintained	2N0	A0D220N*	Ϋ́	*	7 7	Controllers
		2NC	A0D202N*	S			Operator Interfaces
		2NO-2NC	A0D222N*	W			
Extended with Half Shroud		1NO	ABGD210N*	B G			Sensors
ABGD2 AOGD2		1NC	ABGD201N*				AUTO-ID
AUGDZ	Momentary	1NO-1NC	ABGD211N*	R			
	Williary	2N0	ABGD220N*	Υ	Panel 0.8 to	Thickness 3.5 ø39	
		2NC	ABGD202N*	S W		5.5	
		2NO-2NC	ABGD222N*	**		32 28 32	Flush Silhouette
		1NO	AOGD210N*	В	4		ø16
		1NC	AOGD201N*	G	1000 (1 or 2 blocks) 10 E		
	Maintained	1NO-1NC	AOGD211N*	R	40.9 (1 or 2 blocks) 18.5 60.9 (3 or 4 blocks) 20.5	29.4	ø22
		2N0	AOGD220N*	Y S			ø30
		2NC	AOGD202N*	W			Miniotura
Extended with Eull Chroud		2NO-2NC	AOGD222N*				Miniature
Extended with Full Shroud ABFD2		1NO	ABFD210N*	В			Pilot Lights
AOFD2		1NC	ABFD201N*	G			
	Momentary	1NO-1NC	ABFD211N*	R Y	_	. I Third and a second	
		2N0	ABFD220N*	S	Pani 9.8	el Thickness to 6 # #39	
		2NC 2NO-2NC	ABFD202N* ABFD222N*	W			TWN
		1NO	ABFD222N* AOFD210N*		4 4	7 8 8 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	TWND
		1NC	AOFD210N* AOFD201N*	В			
		1NO-1NC	AOFD201N*	- G R	45.4 (1 or 2 blocks) 14	29.4	ARN
	Maintained	2N0	AOFD211N* AOFD220N*	Υ	65.4 (3 or 4 blocks) 16.5	40 -	CS
		2NC	AOFD202N*	S			
		010 010	AOT DECENT	N* W			

• Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)

2NO-2NC

- Round bezel (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-312 for bottom view.
- Terminal screws: M3.5
- Integrated terminal cover

ABD1, AOD1 with button color of B (black), G (green), or (R) red

Supply of color buttons B, G, R has been discontinued for ABD1/AOD1 without color code. When ordering, make sure to specify the required button color code.

AOFD222N*

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator

> Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWN

ARN CS

Mushroom/Mushroom with Full Shroud/Jumbo Mushroom/Jumbo Mushrooms with Shallow/Deep Shroud/Pin Lock

Shape	Operation	Contact	Part No.	Button Color Codo	Dimensions	(All dimensions in m
Mushroom		1NO	(Ordering No.) ABD310N*	Color Code		
ABD3		1NC	ABD301N*	B G		
AOD3	Momentary	1NO-1NC	ABD311N*	Ř		
	Williamary	2N0	ABD320N*	Y	Panel Thickness 0.8	to 7.5 29.4
		2NC 2NO-2NC	ABD302N* ABD322N*	S W		
		1NO	ADD322N* AOD310N*	В	414	{
		1NC	AOD301N*	G		
	Maintained	1NO-1NC	A0D311N*	R	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 22	40
	Maintainoa	2N0	AOD320N*	Y S		
		2NC 2NO-2NC	A0D302N* A0D322N*	W		
Mushroom with Full Shroud		1NO	ABGD310N*	В		
ABGD3		1NC	ABGD301N*	G	Panel Thickness 0.8	to 6.5 . 29.4 .
.0GD3	Momentary	1NO-1NC	ABGD311N*	R		
		2NO	ABGD320N*	Y S		
The state of the s		2NC 2NO-2NC	ABGD302N* ABGD322N*	W	848	(()
		1NO	AOGD310N*	В	39/10/29/10/29	
		1NC	AOGD301N*	G	43.9 (1 or 2 blocks) 63.9 (3 or 4 blocks) 23.5	40
	Maintained	1NO-1NC	AOGD311N*	R		
		2NO 2NC	AOGD320N* AOGD302N*	Y S		
		2NO-2NC	AOGD302N*	W		
lumbo Mushroom		1NO	ABD410N*			29.4
ABD4		1NC	ABD401N*		Panel Thickness 0.8 to 7.5	
		1NO-1NC	ABD411N*	В		- / d h
	Momentary 2N0			_ G R	4.14	
			ABD420N*	Ϋ́		
		2NC	ABD402N*		45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 29	
Jumbo Mushroom with		2NO-2NC	ABD422N*		Panel Thickness 0.8 to 7.5	29.4
Shallow Shroud		1NO	ABGD410N*			
ABGD4		1NC	ABGD401N*			
	Momentary	1NO-1NC	ABGD411N*	G R	965	
		2N0	ABGD420N*	Ϋ́		
		2NC	ABGD402N*		45.4 (1 or 2 blocks)	
umbo Mushroom with		2NO-2NC	ABGD422N*		65.4 (3 or 4 blocks) 29 Panel Thickness 0.8 to 7.5.	29.4
eep Shroud		1NO	ABFD410N*			
BFD4		1NC	ABFD401N*	В		
	Momentary	1NO-1NC	ABFD411N*	G	41.4	
	omortui y	2N0	ABFD420N*	R Y		
		2NC	ABFD402N*	·	45.4 (1 or 2 blocks)	
		2NO-2NC	ABFD422N*		65.4 (3 or 4 blocks) 33	40
Pin Lock (On-off Lock Type) (*1) ABD8P		1NO	ABD8P10N*			
אטעטר		1NC	ABD8P01N*	В		40
		1NO-1NC 2NO	ABD8P11N* ABD8P20N*	G R		29.4
		2NC	ABD8P2UN* ABD8P02N*	Y	Panel Thickness 0.8 to 7.5	<u> </u>
and the same	engly	2NO-2NC	ABD8P22N*	-		
Pin Lock (On-lock Type) (*1)		1NO	ABD8PN10N*		928	/ /(((-;-))) }
ABD8PN ABD8PN		1NC	ABD8PN01N*	В		
		1NO-1NC	ABD8PN11N*	G	15.4 (1 and blocks)	
18			 			
		2N0 2NC	ABD8PN20N* ABD8PN02N*	R Y	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 27.5	4

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow), S (blue), W (white)
- Round bezel (metal): Chrome-plated
- Pin Lock (On-lock type): Button can be locked in depressed position by inserting the pin (the button cannot be locked in reset position).
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- See B-342 for maintenance parts.
- *1) The pin for ABD8P is ø4.6 mm and is not compatible with ABN8P (old series).
- See B-312 for bottom view.
- Terminal screws: M3.5
- · Integrated terminal cover

Pushlock Turn Reset/Push Turn Lock/Pull/Push-Pull

Package Quantity: 1

					Package Quantity: 1	
Shape	Contact	Part No. (Ordering No.)	Button Color Code	Dimensions	(All dimensions in mm.)	t Lights
Mushroom Pushlock Turn Reset (*1) AVD3	1NO	AVD310N*				0,
AVDO	1NC	AVD301N*		Pane	Thickness 0.8 to 7.5	
	1NO-1NC	AVD311N*	R			APEM
	2N0	AVD320N*	Υ	4		Switches & Pilot Lights
	2NC	AVD302N*		45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 23.6	29.4	Control Boxe
	2NO-2NC	AVD322N*		- 03.4 (3 01 4 0100kg) sle 25.0	<u>'</u> → 10	Emergency Stop Switche
Mushroom Push Turn Lock AJD3	1NO	AJD310N*				Enabling Switches
AUDU	1NC	AJD301N*		Panel	Thickness 0.8 to 7.5	Safety Produ
	1NO-1NC	AJD311N*	B G		1 19	Explosion Pro
	2N0	AJD320N*	R 7 3			
	2NC	AJD302N*	'	45.4 (1 or 2 blocks) 65.4 (3 or 4 blocks) 23.1	29.4	Terminal Blo
	2NO-2NC	AJD322N*		05.4 (3 OF 4 DIOCKS) 23.	5 40 40	Relays & Soci
Mushroom Pull AZD3	1NO	AZD310N*				Circuit Protectors
	1NO-1NC	AZD311N*	B G	Panel	Thickness 0.8 to 7.5	Power Suppli ———————————————————————————————————
	2N0	AZD320N*	R Y	4	a de la companya de l	Controllers
	2NC	AZD302N*		45.4 25.	1 5.5 stroke 29.4 40	Operator Interfaces
Mushroom Push-Pull (*2) AYD31	1NO-1NC	AYD3111N*		Panel	Thickness 0.8 to 7.5	Sensors AUTO-ID
	2N0	AYD3120N*	B G R	8	g g	
	2NC	AYD3102N*	Y	45.4 5.5 str	oke 29.4 40	Flush Silhoue ø16

- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Round bezel (metal): Chrome-plated
- Pushbuttons with 1 or 3 contact blocks have a dummy block.
- See B-307 for other contact configurations and gold-plated silver contacts.
- Mushroom pull has up to 2 contact blocks.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- *2) Push-Pull switches with red button cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- See B-312 for bottom view.
- Terminal screws: M3.5
- Integrated terminal cover

Pushbutton operation

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

Button is locked when turned clockwise in the depressed position and is reset when turned counterclockwise.

Pulling the button operates the contacts, and releasing the button return the contacts.

2-position switches with button maintained in both depressed and reset positions.

Pull contact operation

- an contact operation												
Comtont	AZD3											
Contact	Normal	Pull										
1NO	о' о	9.										
2NO-2NC	ი-ი ••	<u> </u>										
2N0	9,9 9,9	9 4 9 4 9										
2NC	•	•1• •1•										

Push-Pull contact operation

Contact	AYD31								
Contact	Push	Pull							
1NO	ტ •_•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
2N0	9,9 9,9	00 00 T 00							
2NC	<u>.</u> .	ara ara							

Control Boxes

Emergency Stop Switches Enabling

Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Power Supplies

LED Illumination

Flush Silhouette

ø22

Miniature

Pilot Lights

TWN

ARN

CS

Control Boxes Emergency Stop Switches Enabling Switches Safety Products Explosion Proo Terminal Blocks Relays & Sockets Circui Protectors Power Supplies LED Illumination Controllers

LED Illuminated Extended/Extended with Full Shroud

Package Quantity: 1

Lights	Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Button Color Code	
<i>•</i>	Extended				1NO-1NC	ALD22211DN*		
	ALD2			24V AC/DC	2N0	ALD22220DN*		
ADEM	AOLD2				2NC	ALD22202DN*	R	
APEM					1NO-1NC	ALD21611DN*	G	
Switches &			Momentary	100/110V AC	2N0	ALD21620DN*	Y A	
Pilot Lights					2NC	ALD21602DN*	S	
ntrol Boxes					1NO-1NC	ALD22611DN*	PW	
Emergency				200/220V AC	2N0	ALD22620DN*		
p Switches	(24V AC/DC)	BA9S			2NC	ALD22602DN*		
Enabling Switches	(211716/20)	DA95			1NO-1NC	A0LD22211DN*		
ty Products				24V AC/DC	2N0	A0LD22220DN*		
Ly Flouucis					2NC	A0LD22202DN*	R	
osion Proof					1NO-1NC	A0LD21611DN*	G	
			Maintained	100/110V AC	2N0	A0LD21620DN*	Y A	
inal Blocks					2NC	A0LD21602DN*	S	
s & Sockets					1NO-1NC	A0LD22611DN*	PW	
Circuit	With transformer			200/220V AC	2N0	A0LD22620DN*		
Protectors	(100/110V AC)				2NC	A0LD22602DN*		
er Supplies	Extended with Full Shroud				1NO-1NC	ALFD22211DN*		
от опрриоз	ALFD2			24V AC/DC	2N0	ALFD22220DN*		
llumination	AOLFD2				2NC	ALFD22202DN*	R	
					1NO-1NC	ALFD21611DN*	G	
Controllers			Momentary	100/110V AC	2N0	ALFD21620DN*	Y	
Operator Interfaces					2NC	ALFD21602DN*	S	
					1NO-1NC	ALFD22611DN*	PW	
Sensors				200/220V AC	2N0	ALFD22620DN*		
AUTO-ID	(24V AC/DC)	DAGC			2NC	ALFD22602DN*		
	(247710/00)	BA9S			1NO-1NC	AOLFD22211DN*		
				24V AC/DC	2N0	AOLFD22220DN*		
					2NC	AOLFD22202DN*	R	
Cilhauatta					1NO-1NC	AOLFD21611DN*	G	
Silhouette			Maintained	100/110V AC	2N0	AOLFD21620DN*	Y	
ø16					2NC	AOLFD21602DN*	A S	
					1NO-1NC	AOLFD22611DN*	PW	
ø22	With transformer			200/220V AC	2N0	AOLFD22620DN*		
ø30	(100/110V AC)				2NC	AOLFD22602DN*]	
	 Specify a color code in place of * in Part No. R (red). 	G (green) V (vellow) A (amber)	• See B-308 fo	r other contact con	figurations and gold-plated silver	contacts	

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)
- Illuminated pushbuttons have an LED lamp installed.
- · Round bezel (metal): Chrome-plated

ALD2/AOLD2 (terminal screws M3.5)

6, 12, 24V AC/DC · Without LED Lamp

- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- See B-308 for other contact configurations and gold-plated silver contacts.

110V DC, 380V AC or over

- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- See B-314 for bottom view.

Dimensions

TWN

Flush Silhouette

Miniature

Pilot Lights

ARN

CS

Extended, LED illuminated (momentary/maintained)

100/110V AC, 200/220V AC (240V AC or below)

Integrated terminal cover

Extended with Full Shroud, LED illuminated (momentary/maintained) ALFD2/AOLFD2 (terminal screws M3.5) Integrated terminal cover

6, 12, 24V AC/DC · Without LED Lamp

100/110V AC, 200/220V AC (240V AC or below) Panel Thickness 0.8 to 6

110V DC, 380V AC or over



For more information, visit http://eu.idec.com

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

LED Illuminated Mushroom (ø40)/Mushroom Pushlock Turn Reset

Package Quantity: 1

Shape	Base	Operation	Operating Voltage	Contact	Part No. (Ordering No.)	Color Code
Mushroom (ø40)				1NO-1NC	ALD32211DN*	
ALD3			24V AC/DC	2N0	ALD32220DN*	
AOLD3				2NC	ALD32202DN*	
				1NO-1NC	ALD31611DN*	R G Y A S
		Momentary	100/110V AC	2N0	ALD31620DN*	Ÿ
				2NC	ALD31602DN*	A
				1NO-1NC	ALD32611DN*	3
			200/220V AC	2N0	ALD32620DN*	
(24V AC/DC)	BA9S			2NC	ALD32602DN*	
	DA95			1NO-1NC	A0LD32211DN*	
			24V AC/DC	2N0	A0LD32220DN*	
				2NC	A0LD32202DN*	R
				1NO-1NC	AOLD31611DN*	R G Y
		Maintained	100/110V AC	2N0	A0LD31620DN*	Υ Δ
			200/220V AC	2NC	A0LD31602DN*	A W
				1NO-1NC	A0LD32611DN*	S
With transformer				2N0	A0LD32620DN*	
(100/110V AC)				2NC	A0LD32602DN*	
Mushroom Pushlock Turn Reset (*1)				1NO-1NC	AVLD32211DN*	
AVLD3			24V AC/DC	2N0	AVLD32220DN*	
				2NC	AVLD32202DN*	
				1NO-1NC	AVLD31611DN*	
	BA9S	_	100/110V AC	2N0	AVLD31620DN*	R
				2NC	AVLD31602DN*	
				1NO-1NC	AVLD32611DN*	
(24V AC/DC)			200/220V AC	2N0	AVLD32620DN*	
(277710/20)				2NC	AVLD32602DN*	

- Specify a color code in place of * in Part No. R (red), G (green), Y (yellow), A (amber), S (blue)
- Illuminated pushbuttons have an LED lamp installed.
- Round bezel (metal): Chrome-plated
- See B-308 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- See B-308 for other contact configurations and gold-plated silver contacts.
- Illuminated pushbutttons of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- *1) Pushlock turn reset switches cannot be used as emergency stop switches. When emergency stop switches are required, use XN series emergency stop switches (ISO 13850 and IEC 60947-5-5 compliant).
- See B-314 for bottom view.

Illuminated pushbutton operation

Pushlock Turn Reset

Button is maintained when pressed and is reset when turned clockwise.

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

TWN

ARN

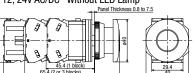
CS

Dimensions All dimensions in mm

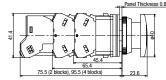
Mushroom, LED illuminated (momentary/maintained)

ALD3/AOLD3 (terminal screws M3.5) Integrated terminal cover

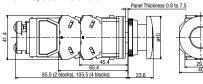
6, 12, 24V AC/DC · Without LED Lamp



100/110V AC, 200/220V AC







110V DC, 380V AC or over

Mushroom Pushlock Turn Reset, LED illuminated

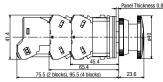
AVLD (terminal screws M3.5)

6, 12, 24V AC/DC · Without LED Lamp

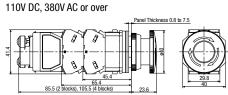
Integrated terminal cover

100/110V AC, 200/220V AC









ASD Selector Switches (Knob Operator)

Package Quantity: 1

Knob Operator ASD Shape APEM Control Boxes Emergency Stop Switches Enabling Switches Safety Products 90° 2-pos **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator Sensors AUTO-ID Flush Silhouette 45° 3-pos ø22 Miniature Pilot Lights TWN

		Contact C	onfiguratio	n			Maintained	Spring Return from Right	Spring Return from Left					
		Contact	Block		perato Positio		1 2	1 • 2	Contact	Block	Oper Posi		1, 2	
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2		
	1NO	①	NO		•		40004011	100011011	①	NO	•			
	(10)	2	_	Dun	nmy B	lock	ASD210N	ASD2110N	2	_	_	-	ASD2210N	
osition	1NO-1NC	1	NO		•		40004411	100044411	①	NO	•		100001111	
	(11)	2	NC	•			ASD211N	ASD2111N	2	NC		•	ASD2211N	
	2N0	①	NO		•		ACDOOON	ACDOTOON	①	NO	•		ACDOGGON	
	(20)	2	NO		•		ASD220N	ASD2120N	2	NO	•		ASD2220N	
		①	NO		•				0	NO	•			
	2NO-2NC	2	NC	•			ACDOOON	ACDOTOON	2	NC		•	ACDOGGON	
	(22)	3	NO		•		ASD222N	ASD2122N	3	NO	•		ASD2222N	
		4	NC	•					4	NC		•		
		Contact C	onfiguratio	n			Maintained	Spring Return from Right	9	Spring Return Two-way				
	Contact	Contact	Block	Operator Position			1 0 2	1 0 2	1 0 2				1, 0, 2	
-		Mounting Position	Contact	1	0	2				$\overline{}$				
	2N0	①	NO	•			ASD320N	ACD2120N	ASD3220N					
	(20)	2	NO			•	ASDSZUN	ASD3120N			ASD3320N			
	2NC	1	NC			ı	ASD302N	ASD3102N	ASD3202N				ASD3302N	
	(02)	2	NC				ASDSUZIN	ASDSTUZN						
		①	NO	•										
	2NO-2NC	2	NO			•	ASD322N	ASD3122N		ASD3222N			40000001	
	(22)	3	NC				ASDSZZN	ASDSTZZN		ASDSZZZIN			ASD3322N	
osition		4	NC											
		①	NO	•										
	4NO	2	NO			•	ASD340N	ASD3140N		ASD3240N			400004011	
	(40)	3	NO	•			A3D340N	A3D3140N		ASDSZ4UN			ASD3340N	
		4	NO			•								
		1	NC											
	4NC	2	NC				ASD304N	ASD3104N		ASD3204N			400000411	
	(04)	3	NC				A3D3U4N	A3D3104N		A3D3204N			ASD3304N	
		4	NC											
		①	NO	•										
	☆	2	NO			•	☆		_					
	☆ 3S	3	NC		•		ASD33SN-243	_					<i>-</i>	
		4	_	Dun	nmy B	lock	-							

· Knob: Black

ARN

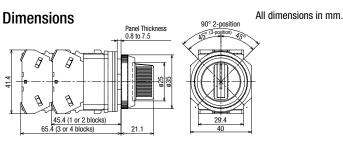
CS

- Round bezel (metal): Chrome-plated
- Selector switches with 1 or 3 contact blocks have a dummy block.
- Knob operator can be installed at every 45 degrees intervals in addition to the positions shown in the above table.
- See B-321 to B-322 for other contact configurations.

- . Turn the operator to each position accurately.
- Selector switches with \$\simeq\$ have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts. • See B-312 for bottom view.

Contact Block Mounting Position





Terminal Screws: M3.5 Terminal cover: integrated

For more information, visit http://eu.idec.com

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWN

ARN CS

ASD□L Selector Switches (Lever Operator)

Package Quantity: 1

Shape	Lever Opera ASD□L	ator											ratkaye Quantity. I
		Contact C	Configurat	ion			Maintained	Spring Return from Right		Sprir	m Left		
	Contact	Contact	Block		perato Position		1 2		Contact	Block	1, 2		
	Contact	Mounting Position	Contact	1	2				Mounting Position	Contact	1	2	
	1N0	0	NO				ASD2L10N	ASD21L10N	1	NO	•		ASD22L10N
90°	(10)	2		Dur	nmy Bl	ock	AUDZETUN	AUDZILIUN	2	_	_		NODEELIUN
2-position	1NO-1NC	0	NO		•		ASD2L11N	ASD21L11N	①	NO	•		ASD22L11N
	(11)	2	NC	•			AODZETTIV	7.002.121.11	2	NC		•	71002221111
	2N0	0	NO		•		ASD2L20N	ASD21L20N	①	NO	•		ASD22L20N
	(20)	2	NO		•				2	NO	•		
		0	NO	_	•				①	NO	•	_	
	2NO-2NC	2	NC	•			ASD2L22N	ASD21L22N	2	NC		•	ASD22L22N
	(22)	3	NO NO	_					3	NO	•	_	
		4	NC	•	Ш			One in a D. I	4	NC		•	0
	Contact Configuration						Maintained	Spring Return from Right	Sprin	g Return fr	om Le	eft	Spring Return Two-way
	Contact	Contact	Block	Operator Position		ir 1	1 0 2	1 0 2		1, 0	2		1, 0, 2
	Contact	Mounting Position	Contact	1	2				V				
	2N0	①	NO	•			ASD3L20N	ASD31L20N		ASD32L20	DN .		ASD33L20N
	(20)	2	NO			•	AODOLLON	AODOTEZON			-11		AODOULEUN
	2NC	0	NC				ASD3L02N	ASD31L02N		ASD32L02	2N		ASD33L02N
	(02)	2	NC										
		0	NO	•									
	2NO-2NC	2	NO			•	ASD3L22N	ASD31L22N		ASD32L22	2N		ASD33L22N
45°	(22)	3	NC	_									
3-position		4	NC										
		0	NO NO	•									
	4NO	2	NO NO			•	ASD3L40N	ASD31L40N		ASD32L40	ON		ASD33L40N
	(40)	3	NO NO	•									
		4	NO NC			•							
		0	NC										
	4NC (04)	2	NC NC				ASD3L04N	ASD31L04N		ASD32L04	1N		ASD33L04N
	(04)	3	NC NC										
		4	NO NO										
		① ②	NO NO	•			☆						
	☆ 3S		NC NC				● ASD3L3SN-243	_		_			_
	33	<u>3</u>		Dur	nmy Pi	ook							
		(4)		⊅ur	nmy Bl	UCK							

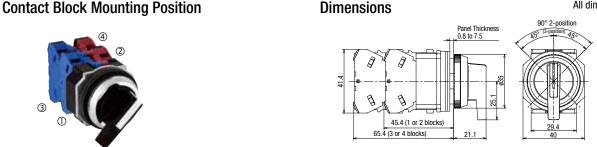
- Lever: Black

- Round bezel (metal): Chrome-plated
 Selector switches with 1 or 3 contact blocks have a dummy block.
 Knob operator can be installed at every 45 degrees intervals in addition to the positions shown in the above table.
- \bullet Turn the operator to each position accurately. \bullet Selector switches with \thickapprox have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.

 • See B-308 for gold-plated silver contacts.
- See B-312 for bottom view.

Dimensions

All dimensions in mm.



Terminal Screws: M3.5 Terminal cover: integrated

► Download catalogs and CAD from http://eu.idec.com/downloads

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors **Power Supplies** LED Illumination Controllers Operator

> Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWN

ARN CS

ASD□K Key Selector Switches

Package Quantity: 1

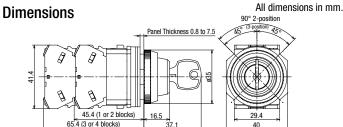
													Package Quantity:			
Shape	Key Selector ASD□K	or (Key No.	0)													
		Contact (Configurat	tion			Maintained	Spring Return from Right	Spring Return from Left							
			Contact Block Operator Position			1 2		Contact	Block		erator sition	1, 2				
	Contact	Mounting Position	Contact	1	2			1 2	Mounting Position	Contact	1	2				
	1NO	①	NO		•		AODOKAON	AODOAKAON	①	NO	•		ACDOOKAON			
90°	(10)	2	_	Dui	mmy E	Block	ASD2K10N	ASD21K10N	2	_	-	_	ASD22K10N			
2-position	1NO-1NC	1	NO		•		ACDOV11N	ACD04V44N	0	NO	•		ACDOOK11N			
	(11)	2	NC	•			ASD2K11N	ASD21K11N	2	NC		•	ASD22K11N			
	2N0	1	NO		•		ASD2K20N	ASD21K20N	①	NO	•		ASD22K20N			
	(20)	2	NO		•		ASDZRZUN	ASDZTRZUN	2	NO	•		ASDZZKZUN			
		1	NO		•				1	NO	•					
	2NO-2NC	2	NC	•		-	ASD2K22N	ASD21K22N	2	NC	<u> </u>	•	ASD22K22N			
	(22)	3	NO		•	-			3	NO	•					
		4	NC	•				Consider Determine	4	NC		•	Oneira Batana			
			Configurat	_			Maintained	Maintained Spring Return from L					Spring Return Two-way			
	Contact	Contact Mounting Position		Opei 1	rator Po	osition	1 0 2	1 0 2	1 0 2				1 0 2			
	2N0	①	NO	•												
	(20)	2	NO			•	ASD3K20N	ASD31K20N		ASD32K2	ON		ASD33K20N			
	2NC	0	NC				VCDONOON	ACD24K00N		ACDOOKO	ON		VCD33K03N			
	(02)	2	NC				ASD3K02N	ASD31K02N		ASD32K0	ZIV		ASD33K02N			
		1	NO	•												
	2NO-2NC	2	NO			•	ASD3K22N	ASD31K22N		ASD32K2	2N		ASD33K22N			
4=0	(22)	3	NC				AODOREZI	AODOTREZIO		AODOLIL	214		AODOOREZIV			
45° 3-position		4	NC													
o position		0	NO	•		-										
	4NO	2	NO NO			•	ASD3K40N	ASD31K40N		ASD32K4	ON		ASD33K40N			
	(40)	3	NO NO	•												
		4	NC		_											
	4NC	① ②	NC	_	=											
	(04)	3	NC				ASD3K04N	ASD31K04N		ASD32K0	4N		ASD33K04N			
	(5.)	4	NC													
		0	NO	•	Г											
	٠,٠	NO ☆														
	☆ 3S	3	NC		•		ASD3K3SN-243	_	_				_			
		4	_	Dui	mmy E	Block										

- · Cylinder: Chrome-plated
- · Round bezel (metal): Chrome-plated • Key selector switches with 1 or 3 contact blocks have a dummy block.
- On spring-returned types, the key can be released only from the maintained position. On maintained types, the key can be released from every position. See $\hbox{\ensuremath{B}-308}$ for specifying key retained positions.
- Key selector switch is supplied with two standard keys.
- (1) Insert the key completely before turning the key, otherwise failure will result.

- (2) Turn the operator to each position accurately.
 Different key number is available upon request. Contact IDEC.
 Selector switches with have a half contact operating current (load switching current) value). Rated insulation voltage and rated current remain the same.
- See B-308 for gold-plated silver contacts.
 See B-312 for bottom view.

Contact Block Mounting Position





Terminal Screws: M3.5

Terminal cover: integrated

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

TWN

ARN CS

ASLD Illuminated Selector Switches (LED)

Illuminated Selector Switches (BA9S Base)

Package Quantity: 1

Shape	ASLD			•			,									
		044	0					(24V AC/DC)	0 : 0 : (0 : 1		Cnri	na Da	turn f	rom Left		
	Contact Configuration Operator Operator					or	-	Maintained	Spring Return from Right							
	0	Contact Block			Positio		Operating Voltage	1 2	1 , 2	Contact	t Block		rator ition	1, 2	Color Code	
	Contact	Mounting Position	Contact	1	2		Voltage			Mounting Position	Contact	1	2		Code	
	1110 1110	①	NO		•		24V AC/DC	ASLD22211DN*	ASLD212211DN*	1	NO	•		ASLD222211DN*		
	1NO-1NC (11)	2	NC	•			100/110V AC	ASLD21611DN*	ASLD211611DN*	2	NC		•	ASLD221611DN*		
90°							200/220V AC	ASLD22611DN*	ASLD212611DN*					ASLD222611DN*	_	
2-position	2N0	①	NO		•		24V AC/DC	ASLD22220DN*	ASLD212220DN*	1	NO	•		ASLD222220DN*	RG	
	(20)	2	NO		•		100/110V AC	ASLD21620DN*	ASLD211620DN*	2	NO	•		ASLD221620DN*	Y	Υ .
	,						200/220V AC	ASLD22620DN*	ASLD212620DN*				,	ASLD222620DN*	A S	
		①	NO		•		24V AC/DC	ASLD22222DN*	ASLD212222DN*	1	NO	•		ASLD222222DN*	PW	
	2NO-2NC	2	NC	•			100/110V AC	ASLD21622DN*	ASLD211622DN*	2	NC		•	ASLD221622DN*		
	(22)	3	NO		•		200/220V AC	ASLD22622DN*	ASLD212622DN*	3	NO	•		ASLD222622DN*		
		4	NC	•			_		_	4	NC		•	_		
	Contact Configuration						Maintained	Spring Return from Right	Spring Return from Left		eft	Spring Return Two-way				
		Contac	t Block	Opera	ator Po	sition	Operating Voltage	1 0 2	1 0 2	1, 0 2				1,0,2	Color Code	
	Contact	Mounting Position	Contact	1	0	2	Vollago				\searrow				0000	
		①	NO	•			24V AC/DC	ASLD32220DN*	ASLD312220DN*	ASLI	D322220	DN*		ASLD332220DN*		
	2N0 (20)	2	NO			•	100/110V AC	ASLD31620DN*	ASLD311620DN*	ASLD321620DN*			:	ASLD331620DN*		
	(20)						200/220V AC	ASLD32620DN*	ASLD312620DN*	ASLD322620		ODN*		ASLD332620DN*		
		①	NC				24V AC/DC	ASLD32202DN*	ASLD312202DN*	ASLI	D322202	:DN*		ASLD332202DN*		
	2NC (02)	2	NC				100/110V AC	ASLD31602DN*	ASLD311602DN*	ASLI	D321602	:DN*	:	ASLD331602DN*		
	(02)						200/220V AC	ASLD32602DN*	ASLD312602DN*	ASLI	D322602	:DN*		ASLD332602DN*		
45°		①	NO	•			24V AC/DC	ASLD32222DN*	ASLD312222DN*	ASLD322222DN*		ASLD322222DN*		ASLD332222DN*	_	
3-position	3-position 2NO-2NC		NO			•	100/110V AC	ASLD31622DN*	ASLD311622DN*	ASLI	D321622	:DN*		ASLD331622DN*	R G	
	(22)	3	NC				200/220V AC	ASLD32622DN*	ASLD312622DN*	ASLI	D322622	:DN*	:	ASLD332622DN*	Ϋ́	
		4	NC				_	_	_					_	A	
	4NO (40)	①	NO	•			24V AC/DC	ASLD32240DN*	ASLD312240DN*	ASLI	D322240	DN*	:	ASLD332240DN*	S PW	
		2	NO			•	100/110V AC	ASLD31640DN*	ASLD311640DN*	ASLI	D321640	DN*		ASLD331640DN*		
		3	NO	•			200/220V AC	ASLD32640DN*	ASLD312640DN*	ASLI	D322640	DN*		ASLD332640DN*		
		4	NO			•	_		_					_		
		① NC 24V		24V AC/DC	ASLD32204DN*	ASLD312204DN*	ASLI	D322204	DN*	:	ASLD332204DN*					
	4NC	2	NC				100/110V AC	ASLD31604DN*	ASLD311604DN*	ASLI	D321604	DN*		ASLD331604DN*		
	(04)	3	NC				200/220V AC	ASLD32604DN*	ASLD312604DN*	ASLI	D322604	DN*		ASLD332604DN*		
	4	NC				_	_	_		_			_			

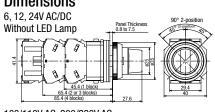
- Specify a color code in place of * in Part No.
- R (red), G (green), Y (yellow), A (amber), S (blue). PW (pure white)
 Round bezel (metal): Chrome-plated
- Illuminated selector switches have an LED lamp installed.
- Use a pure white (PW) LED for yellow (Y) illumination.
 See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
- Illuminated selector switches of 24V AC/DC or below with 2 or 4 contact blocks have a dummy block.
- Turn the operator to each position accurately.
- See B-309 for gold-plated silver contacts. See B-314 for bottom view.

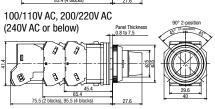
All dimensions in mm.

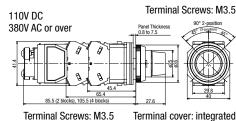
Contact Block Mounting Position Dimensions











Terminal cover: integrated

ASBD2 Selector Pushbuttons

Package Quantity: 1

Shape	Contact Configuration	Circuit Code	Contact Block		Left	Ring F	Position	Right	Button Color Code	Ring Operator	
			Mounting Position Contact		Pushbutton			Deserte	0000	Part No. (Ordering No.)	
Di			Position		Normal	Push	Normal	Push		(Ordering No.)	
Ring Operator (90°2-position) ASBD2	11		①	NO		•		•	B G		
	(1NO-1NC)	A03	2	NC	•				R Y	ASBD211N-A03*	
			①	NO		•		•			
		A08	2	NC	•					ASBD222N-A08*	
		A00	3	NO		•		•		A3DD222N-A00*	
			4	NC	•						
			①	NO		•		•			
		☆ C10	2	NO NC	•			•		☆ ASBD222N-C10*	
		610	<u>3</u>	NC NC						ASDUZZZN-GTU*	
			①	NO					_		
	22 (2NO-2NC)		2	NO				•	R ASBD22		
		D10	3	NC	•					ASBD222N-D10*	
			4	NC			•				
			①	NO		•					
		☆ E10	2	NO				•		☆	
		E10	3	NC						ASBD222N-E10*	
			4	NC							
			①	NO NO							
		∱ F10	3	NO NC		•	•			☆ ASBD222N-F10*	
			4	NC	•					MODUZZZN-FIU*	

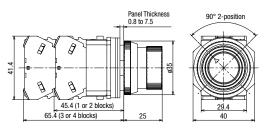
- Specify a color code in place of * in Part No. B (black), G (green), R (red), Y (yellow)
- Bezel (metal): Chrome-plated
- Circuit codes E and F: The right and left NC contact blocks on circuit code E or F may overlap each other while turning the ring operator. The NO and NC contact blocks on circuit code F may overlap each other while pressing the button.
- When using the selector pushbutton, do not turn the ring operator with the pushbutton depressed. Otherwise, damage or failure may be caused.
- Selector switches with 🛱 have a half contact operating current (load switching current value). Rated insulation voltage and rated current remain the same.
- See B-312 for bottom view.

Contact Block Mounting Position



Dimensions Ring operator (90° 2-position)

All dimensions in mm.



Terminal Screws: M3.5 Terminal cover: integrated

ot Light

APEM

Control Boxes Emergency

Stop Switches
Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

TWN

CS

ARN

Control Boxes

Emergency Stop Switches

Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit

Enabling Switches

Protectors

Controllers

Operator

Interfaces

Sensors AUTO-ID

Power Supplies LED Illumination

Pilot Lights (Round)

Package Quantity: 1

Shape		Illumination	Base	Operating Voltage	Part No. (Ordering No.)	Color Code	LED Lamp Part No.	
Round APD1				24V AC/DC	APD122DN*	R, G, Y, A, S, PW	LSRD-2	
1		LED	BA9S	100/110V AC	APD116DN*	R, G, Y, A, S, PW	I CDD 6	
(24)	(24V AC/DC)			200/220V AC	APD126DN*	R, G, Y, A, S, PW	LSRD-6	

• Specify a color code in place of * in Part No.

R (red), G (green), Y (yellow), A (amber), S (blue), PW (pure white)

Round bezel (metal): Chrome-plated

• Pilot lights have an LED lamp installed.

- See B-309 for other operating voltage such as 6V AC/DC, 12V AC/DC, and 110V DC.
 See B-309 for how to specify units without LED lamps.
 Terminal cover is installed on pilot lights for electric shock prevention.

Type	Terminal Cover	Quantity
6V, 12V, 24V AC/DC	APN-PVL	1
100V/110V AC, 200/220V AC	N-VL3	1
110V DC	N-VL3	1

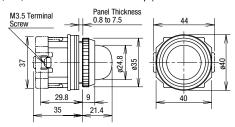
Note: DC-DC converter types are not approved by UL and CSA, and not CE compliant.

• See B-314 for bottom view.

Dimensions

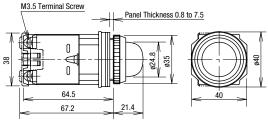
Round, LED illuminated

6V, 12V, 24V AC/DC · Without LED Lamp (Terminal Cover: APD-PVL)



Terminal Screws: M3.5

100 to 480V AC, 110V DC (Terminal Cover: N-VL3)



Terminal Screws: M3.5

All dimensions in mm.

ø22

ø16

Miniature

Flush Silhouette

Pilot Lights

TWN

ARN

CS

• See B-349 for wiring.

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Operator
Interfaces

Sensors

AUTO-ID

Nameplates

	Model	Legend	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)
	NA	Blank		NA-O -	NA-0	1	. 401.2
Л 3.		DIAIIK	Aluminium 1.2 mm thick White letters on black background		NA-0PN10	10	24.5
S		With			NA-□	1	9 030.5
y s g	For TWN/TWND	Legend			NA-□PN10	10	1 (100000
s s — of	NALO	-		NALO	NALO	1	40 11.2
s — s — t	Cost DIANTEMAN		1.2 mm thick Black	NALU	NALOPN10	10	930.5
s I	For TWN/TWND						

Specify a legend code in place of \square in the Ordering No.

Legends

□: Code	Legend
1	ON
2	0FF
3	START
4	STOP
31	OFF ON
35	HAND AUTO
53	HAND OFF AUTO

Flush Silhouette

ø16

ø22

ø30

Miniature

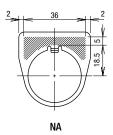
Pilot Lights

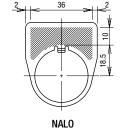
TWN
TWND

CS

ARN

Shape and Engraving Area





All dimensions in mm.

Example (when the legend height is 4 mm)

Shape	Engravi (m	ng Area m)	Max. No. of Lines	No. of Letters on 1 Line	
	Height	Width	OI LINES		
NA	5	36	1	14	
NALO	10 36		2	14	

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof**

Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator

Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN CS

Accessories

Shape	Material	Part No.	Ordering	Package Quantity	Remarks
Locking Ring Wrench B A	Nitril rubber (black)	OR-12	No.	Quantity 1	Used to tighten the round bezel when installing the ø30 or ø25 switch onto a panel from the front. A: TWS series (ø25) B: TWN/TWND series (ø30) A B B B B B B B B B B B B
For TWN/TWND Lamp Holder Tool A B For TWN/TWND	Nitril rubber (black)	OR-55	OR-55	1	Used to install and remove the LED/incandescent lamps. See B-345. A: For BA9S base B: For E12 base A OR-55 59
Contact Block Removal Tool For TWN	Metal (zinc-plated) Rubber (nitryl)	TW-KC1	TW-KC1	1	Used to remove transformer units. See B-347 for how to use. 130 23
Contact Rubber Boot For momentary 1 layer of contact blocks (2 contact blocks)	Nitril rubber (black)	OC-99	0C-99	1	Rubber boot used to prevent oil and dirt from entering into the contact block. Temperature range: —5 to +60°C When inserting a cable, cut the projection on the cover to match
Anti-rotation Ring For TWN/TWND	Metal (diecast) (zinc-plated)	0GL-11	OGL-11PN10	10	the cable size. • Used to prevent the operator from turning. Generally used when using no nameplates on selector switches and selector pushbuttons. • See B-345 for installation. • Cannot be used for pin lock.
Rubber Mounting Hole Plug For TWN/TWND	Nitril rubber (black) Nitril rubber (gray)	0B-13B 0B-13	OB-13BPN05 OB-13PN05	5	Used to plug unused ø30.5 mm mounting holes. Degree of protection: IP40
Plastic Mounting Hole Plug For TWN/TWND	Plug: ABS plastic (gray) Gasket: Chloroprene rubber Locking ring: diecast zinc	0BP-11	0BP-11	1	Tightening torque: 1.2 N·m. Degree of protection: IP65 (when there is no anti-rotation ring hole) Supplied with a locking ring. Gasket M30°1.5Screw Locking Ring
Metallic Mounting Hole Plug For TWN/TWND	Plug: ABS plastic (gray) Gasket: Chloroprene rubber Locking ring: diecast zinc	0B-11	0B-11	1	Tightening torque: 1.2 N·m. Degree of protection: IP65 (when there is no anti-rotation ring hole) Supplied with a locking ring. Gasket M30 ^{P1.5} Screw Locking Ring

Control Boxes

Emergency
Stop Switches
Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Operator
Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN

Accessories All dimensions in mm.

Shape		Material	Pa	rt No.	Ordering No.	Package Quantity	Remarks
Button Cover for Exte Pushbuttons	nded		Black	0C-11B	0C-11B		Metallic bezels covered with a rubber boot to enhance waterproof characteristics.
		Nitril rubber	Red	0C-11R	0C-11R	1	Button is not included. Applicable to extended pushbuttons only. Oil-proof Operating temperature:
		Bezel: diecast zinc	Green	0C-11G	0C-11G		-5 to +60°C.
Fc	or TWN/TWND		Yellow	0C-11Y	0C-11Y		/ MOUT1.3
	For flush pushbuttons	EDDM mubb on	0C-12 ⁻	1	0C-121	1	Used to cover and protect push- buttons where units are subject to water splash. Not suitable for outdoor use or where the units are
- For TWN/TWND	For extended pushbuttons	- EPDM rubber	0C-122	2	0C-122	1	subject to oil splash. Part No.
Dust-proof Rubber Co							Used for ABN4G and ABGD4 pushbuttons. Panel Thickness 1.2 to 5.5
- - - Fo	or TWN/TWND	Nitril rubber (black)	OC-4G	N	OC-4GN	1	
Padlock Cover				,			Used to protect pushbuttons and illuminated pushbuttons (momentary/maintained) with 24 mm max. height from the panel,
- Fc	or TWN/TWND	Polyarylate (gasket: nitryl rubber)	OL-KL1	1	OL-KL1	1	and selector switches (knob operator). • Not used for the following models. Pushbuttons Mushroom with full shroud Mushroom Jumbo mushroom with shroud Illuminated Pushbuttons With half shroud With full shroud Selector Switches Lever operator Key selector switch with key installed • Not used for the following models. Panel Thickness 0.8 to 3.2 Panel Thickness Naterproof Rubber Rubber Rubber Sasket 0.5t 10.5t
Padlock Cover for Key Selector Switche	s						Applicable model Key selector switches ASN□K/ASD□K See padlock cover catalog for operating instruction. Materia: SPCC 1.6 mm-thick Red paint
		Metal Paint: red (zinc-plated brass)	HS9Z-I	PC30	HS9Z-PC30	1	Rivet: Steel Material: SPCC 2mm-thick 58 8 37 27.5 4 R4
For Flush Pushbutton	s s						Used to protect flush pushbuttons from inadvertent operation.
		Metal (zinc-plated brass)	OL-C		OL-C	1	• Can be easily attached using the locking ring.
L Fo	or TWN/TWND						'

Accessories

Polycarbonate Polyca			1	1	1			
Metal (idecast znc. chrome-piated) a35/a26, height 9 For TWM/TWMD Polycerhonate Polycerhonate			Material	Part No. Ordering No.			Remarks	_ight:
eats (aze from the plate of the	Metallic Bezel							S
Polycarbonate OGP-11 OGP-11-PN02 2 Polycarbonate OGP-11 OGP-11-PN02 2 Polycarbonate OGP-11 OGP-11-PN02 2 Polycarbonate OGP-11-PN02 Polycar			(diecast zinc:	0G-11	0G-11PN02	2	selector pushbuttons, and monolever	Switches &
Pleasible Bezzel Polycarbonate Pol	#25/#26 hoight 0 For T							Control Boxes
Solution (global) (global) (grown), Rivers), Working, Polycorbonato Polycorbonato OGP-11= OGP-11+PN02 2 - Specify a color code in place of *. B (black), G (grown), Rivers), Working, Yellow Solve Production, and monotever units. Solety Production	<u> </u>	WIN/ I WIND						Stop Switches
Polycarbonate OGP-11= OGP-11=PN02 2 2 Strough (agrain), R (rad), W (which), Y (yellow) Cannot be used writh pin lock, selector pushbuttors, and monolever units. Polycarbonate OGP-11= OGP-11=PN02 2 2 Septimately (agrain), R (rad), W (which), Y (yellow) Cannot be used writh pin lock, selector pushbuttors, and monolever units. Power Suspile (dicast zinc: Chrome-plated) Carrier (dicast zinc: Chrome-plated) Carrier (dicast zinc: Chrome-plated) Extended (agrain)								
Acylic (clear) Acylic (clear)							B (black), G (green), R (red), W (white),	Safety Products
a35/426, height 9 For TWN OGP-1411 OGP-1411 1 Shroud: slightly depending on the panel thickness. Acrylic (clear) OGP-1411 OGP-1411 OGP-1411 OGP-1411 OGP-1411 OGP-1411 of the panel thickness. Acrylic (clear) OGP-1411 of the pane			Polycarbonate	0GP-11*	0GP-11*PN02	2	 Cannot be used with pin lock, selector 	Explosion Proof
Octagonal Metal Bazel Push was (37.6) High Metal (decast zinc: chrome-plated) Extended W35 (37.6) Hill Extended W35 (37							pushbuttons, and monolever units.	Terminal Blocks
Metal (diecast zinc: chrome-plated) Standard W35 (a) 476 (diecast zinc: chrome-plated) For TWIN 1 Clear Plastic Shroud for Flush Pushbuttons Acrylic (clear) Acrylic (clear		For TWN						Relays & Sockets
Mode	Octagonal Metal Bezel							
Metal (diceast zinc: chrome-plated) For TWDN Clear Plastic Shroud for Flush Pushbuttons Acrylic (clear) OGP-14 OGP-14PN02 2 OGP-14PN02 2 OGP-14PN02 2 OGP-14PN02 Acrylic (clear) OGP-14II OGP-14II	0	W35		0G-81	0G-81PN02	2		Power Supplies
Controllers								LED Illumination
Clear Plastic Shroud for Flush Pushbuttons Clear Plastic Shroud for Flush Pushbuttons Acrylic (clear) OGP-13 OGP-13PN02 2 Plush Shroud for Extended Pushbuttons Acrylic (clear) OGP-14 OGP-14PN02 2 Plush Shroud for Extended Pushbuttons Acrylic (clear) OGP-14 OGP-14PN02 2 Plush Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP-1411 1 • Buttons may protrude slightly depending on the panel thickness. ARN CS			(diecast zinc:				switches and pilot lights.	Controllers
Seneors Acrylic (clear) OGP-13 OGP-13PN02 2 OGP-14PN02 2 OGP-14PN02 2 OGP-14PN02 2 OGP-14PN02 2 OGP-14PN02 O			chrome-plated)				Cannot be used with half-shrouds.	
Acrylic (clear) Acrylic (clear) OGP-13 OGP-13PN02 2 OGP-14PN02		W35		0G-82	0G-82	1		Sensors
Clear Plastic Shroud for Flush Pushbuttons Acrylic (clear) OGP-13 OGP-13PN02 Clear plastic full shroud. Clear plastic Shroud for Extended Pushbuttons Acrylic (clear) OGP-14 OGP-14PN02 Clear plastic full shroud. Clear plastic full shroud. TWN Clear plastic full shroud. TWN Clear plastic Shroud for Extended Pushbuttons Acrylic (clear) OGP-14 OGP-14PN02 Clear plastic full shroud. TWN TWN TWN Acrylic (clear) OGP-1411 OGP-1411 OGP-1411 OGP-1411 OGP-1411 OGP-1411 OGP-1411 OGP-1411 *Buttons may protrude slightly depending on the panel thickness. Metal Nut Ring: height 4 For TWN Metal Nut Ring for Illuminated Pushbuttons Metal (diecast zinc) OL-11 OL-11PN05 *Metal nut ring for OGP-1411 only.	For TW/DN							AUTO-ID
Acrylic (clear) OGP-13 OGP-13PN02 Clear plastic full shroud. Clear plastic full shroud. Clear plastic full shroud. Acrylic (clear) OGP-14 OGP-14PN02 2 Clear plastic full shroud. Miniature Pilot Lights TWN Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP-1411		buttons						
Acrylic (clear) OGP-13 OGP-13PN02 Clear plastic full shroud. Clear plastic full shroud. Clear plastic full shroud. Acrylic (clear) OGP-14 OGP-14PN02 2 Clear plastic full shroud. Miniature Pilot Lights TWN Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP-1411								
e35, height 14 For TWN Clear Plastic Shroud for Extended Pushbuttons Acrylic (clear) OGP-14 OGP-14PN02 2 Clear plastic full shroud. Clear plastic full shroud. Miniature Pilot Lights TWN Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OG			Acrylic (clear)	0GP-13	0GP-13PN02	2		Flush Silhouette
e35, height 14 For TWN Clear Plastic Shroud for Extended Pushbuttons Acrylic (clear) Acrylic (clear) OGP-14 OGP-14PN02 2 Clear plastic full shroud. Miniature Pilot Lights TWN Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP								
Clear Plastic Shroud for Extended Pushbuttons Acrylic (clear) OGP-14 OGP-14PN02 2 Clear plastic full shroud. Miniature Pilot Lights TWN Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP-1	ø35 height 14	For TWN						
Acrylic (clear) Acrylic (clear) OGP-14 OGP-14PN02 2 TWN Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP-1411 OGP-1411 OGP-1411 OGP-1411 Acrylic (clear) OGP-1411							Clear plastic full shroud.	
Acrylic (clear) OGP-14 OGP-14PN02 2 TWN Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP-								Miniature
### Shroud: ### ### ### ### ### ### ### ### ### #			Acrylic (clear)	0GP-14	0GP-14PN02	2		Pilot Lights
Clear Plastic Shroud for Illuminated Pushbuttons Acrylic (clear) OGP-1411 OGP-1411 Acrylic (clear) OGP-1411 OGP-1411 ARN CS TWND ARN CS TWND ARN CS Metal Nut Ring: height 20.6 Metal Nut Ring for Illuminated Pushbuttons Metal Nut Ring for Illuminated Pushbuttons Metal (diecast zinc) OL-11 OL-11PN05 Metal nut ring for OGP-1411 only.								
Acrylic (clear) Acrylic (clear) OGP-1411 OGGP-1411	ø35, height 20.6	For TWN						TWN
Acrylic (clear) Acrylic (clear) OGP-1411 OGP-1411 OGP-1411 Buttons may protrude slightly depending on the panel thickness. CS Metal Nut Ring: height 4 For TWN Metal Nut Ring for Illuminated Pushbuttons Metal (diecast zinc) OL-11 OL-11PN05 Metal nut ring for OGP-1411 only.	Clear Plastic Shroud for Illuminated Pu	shbuttons						TWND
Shroud: ø35, height 20.6 Metal Nut Ring: height 4 Metal Nut Ring for Illuminated Pushbuttons Metal (diecast zinc) Metal nut ring for OGP-1411	920							ARN
Shroud: ø35, height 20.6 Metal Nut Ring: height 4 Metal Nut Ring for Illuminated Pushbuttons Metal (diecast zinc) OL-11 OL-11PN05 5 Metal nut ring for OGP-1411 only.			Acrylic (clear)	0GP-1411	0GP-1411	1	Buttons may protrude slightly depending	CS
Metal Nut Ring: neight 4 For TWN Metal Nut Ring for Illuminated Pushbuttons Metal (diecast zinc) Metal (diecast zinc) OL-11 OL-11PN05 Metal nut ring for OGP-1411 only.			jiio (oloui)	301 1711			on the panel thickness.	
Metal Nut Ring for Illuminated Pushbuttons Metal (diecast zinc) Metal (diecast zinc) OL-11 OL-11PN05 5 Metal nut ring for OGP-1411 only.		For TWN						
(diecast zinc) OL-11 OL-11PN05 5 • Metal nut ring for OGP-1411 only.								
(diecast zinc) OL-11 OL-11PN05 5 • Metal nut ring for OGP-1411 only.								
ø35, height 4 For TWN				0L-11	0L-11PN05	5	Metal nut ring for OGP-1411 only.	
	ø35, height 4	For TWN						

Control Boxes

Emergency
Stop Switches
Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Operator
Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN

Accessories All dimensions in mm.

S	Shape		Part No.	Ordering No.	Package Quantity	Color Code *	
Button for Pushbuttons	① Flush ø24.6, height 4		ABN1BN-*	ABN1BN-*PN05	5		
0	② Extended ø24.6, height 9		ABN2BN-*	ABN2BN-*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)	
3	③ Mushroom ø40, height 16.2	Polyacetal	ABN3BN-*	ABN3BN-*PN02	2		
4	④ Jumbo Mushroom ø65, height 23.2		ABN4BN-*	ABN4BN-*	1	B (black), G (green), R (red), Y (yellow), S (blue)	
(S)	© Button for Pin Lock (ABD8P) ø23.6, height 3		ABW1B-*	ABW1B-*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)	
	© Ø40 Pushlock Turn Reset (AVN3, AVD3) Ø40, height 18.5	AS resin	AVN3B-*	AVN3B-*	1	R (red),Y (yellow)	
For TWN/TWND	Ø 40 Push Turn Lock (AJN3, AJD3) ø40, height 18.5	AOTOSIII	AJN3B-*	AJN3B-*	1	B (black), G (green), R (red), Y (yellow)	
Lens for Illuminated Pushbuttons ①	① Extended (ALN2, ALD2) ø24, height 18.5	AS resin	ALN2LD-*-K	ALN2LD-*-KPN05	5	R (red), G (green), S (blue), Y (yellow), A (amber), W (white) Specify W for PW (pure white) illumination.	
© For TWN/TWND	② ø40 Pushlock turn reset (AVLN3, AVLD3) ø40, height 18.5	AS TESTI	AVLN3L-R-K	AVLN3L-R-KPN02	2	R (red) only	
Selector Operator	① Knob operator ø25, height 20.5		ASNHT-*	ASNHT-*PN02			
2	② Lever operator ø25, height 20.5, length 37.5	Polyacetal	ASNHL-*	ASNHL-*PN02	2	B (black), G (green), R (red)	
3 4	③ Color insert Width 21, depth 5, height 18		TW-HC1*	TW-HC1*PN05	5	B (black), G (green), R (red), Y (yellow), S (blue), W (white)	
For TWN/TWND	Knob for illuminated selector switch (ASLN, ASLD) ø25, height 28	AS resin	ASLNHD-*-K	ASLNHD-*-K	1	G (green), R (red), S (blue), A (amber), W (white), Y (yellow) Specify W for PW (pure white) illumination.	
Lens for Pilot Lights ①	① Round (APN1, APD1) ø24.6, height 28, M20		APN106LN-*-K	APN106LN-*-KPN05	5	R (red), G (green), Y (yellow) A (amber), W (white), S (blue)	
	For TWN/TWND					Specify W for PW (pure white) illumination.	
2	© Rectangular (UPQN4) Width 36, depth 30, height 8.5	AS resin	UPQN406LD-*-K	UPQN406LD-*-KPN05	5	R (red), G (green), Y (yellow), A (amber), C (clear), S (blue) Specify C for PW (pure white) illumination.	
3	③ Square extended (UPQN3B) □25, height 26.5 For TWN		UPQN06LD-*-K	UPQN06LD-*-KPN05	5	R (red), G (green), S (blue), Y (yellow), A (amber), W (white) Specify W for PW (pure white) illumination.	
Marking Plate For TWN	Rectangular pilot lights (UPQN4) Width 29.8, depth 23.8, thickness 2	Acrylic	UPQN406N-W	UPQN406N-WPN05	5	W (white) only See B-346 for engraving area.	

Maintenance Parts

Shape	Material	Part No.	Ordering No.	Package Quantity	Remarks	Pilot Lights
Rubber Washer (1.5 mm-thick)						S
	Rubber (synthetic soft vinyl)	0W-11	OW-11PN10	10	To tighten mounting panels	ADEM
For TWN/TWND	ø39/ø29.5, height 1.5					APEM Switches &
Rubber Washer (3.0 mm-thick)						Pilot Lights
For TWN/TWND	Rubber (synthetic soft vinyl) ø39/ø29.5, height 3	0W-12	0W-12PN10	10	To tighten mounting panels	Emergency Stop Switches Enabling
Shroud for Pushbuttons						Switches
0	① Half shroud ø35/ø27, height 20.5	ABN2G	ABN2G	1	• With nut ring (ø35, height 4)	Safety Products
	\$55/\$27, Height 20.5					Explosion Proof
②						Terminal Block
	② Full shroud ø35/ø28.5, height 16.5	ABN2F	ABN2F	1		Relays & Socke
3	\$33/\$20.3, Height 10.3					Circuit Protectors
	③ Full shroud					Power Supplies
4	(for mushroom pushbuttons)	ABN3G	ABN3G	1		LED Illumination
	ø48, height 20					Controllers
						Operator Interfaces
(S)	Shallow shroud (for jumbo mushroom)	ABN4G	ABN4G	1		Sensors
	ø75, height 18					AUTO-ID
	⑤ Deep shroud (for jumbo mushroom)	ABN4F	ABN4F	1		
For TWN/TWND	ø75/ø69, height 33					Flush Silhouett
nroud for Illuminated Pushbuttons						ø16
	① Half shroud (For BA9S base)	ALN2GL	ALN2GL	1	• With nut ring (ø35, height 4)	ø22
	ø35/ø27, height 25					ø30
	② Full shroud					Miniature
For TWN/TWND	(For BA9S base)	ALN2FL	ALN2FL	1	• With nut ring (ø35, height 4)	Pilot Lights
	ø35/ø29.5, height 22.5					- Filot Lights
pare Key or Key Selector Switches	Metal					
	Nickel plated brass	TW-SK-0	TW-SK-0PN02	2	• ASN□K□N	TWN
	Length 3, width 19.7, thickness 1.8				ASD□K□N	TWND
For TWN/TWND pare Key						ARN
for Key Selector Switches	Metal					
	Nickel plated brass Length 37.5,	ASN-SK-24401	ASN-SK-24401PN02	2	• ASN□K□-N024401	CS
For TWN	thickness 2					
in/Chain Kit						1
or ABD8P	Din				Din chain and plate for ADMOD	
	Pin: Nickel plated brass	ABD8P-PIN	ABD8P-PIN	1	Pin, chain, and plate for ABN8PPin (ø4.6)	
For TWND						
ontact Block Plug						1
	Dalamari I	1002 000	LINIOZ ODBI BUCO	10	Used to plug the hole in the	
100	Polyamide	HW9Z-CBPL	HW9Z-CBPLPN10	10	center of a contact block.	

For TWN/TWND

Maintenance Parts

	Description	Part No.	Ordering No.	Package Quantity	Remarks	
	NO contact	HW-U10	HW-U10	1	Housing color: Blue Push rod color: Green	
	NO COILLACT	HW-U10-MAU	HW-U10-MAU	I	MAU has gold contacts	
	NC contact	HW-U01	HW-U01		Housing color: Reddish purple Push rod color: Red	
	NG COITIAGE	HW-U01-MAU	HW-U01-MAU	I	MAU has gold contacts	
.4	EM contact	HW-U10R	HW-U10R	- 1	Housing color: Blue Push rod color: Black	
	(early make)	HW-U10R-MAU	HW-U10R-MAU	!	MAU has gold contacts	
	LB contact	HW-U01R	HW-U01R		Housing color: Reddish purple Push rod color: White	
11g approx.	(late break)	HW-U01R-MAU	HW-U01R-MAU] !	MAU has gold contacts	
	Polyamide	HW-DB	HW-DBPN10	10	For HW-U contact blocks Used when the number of contact blocks and full voltage adapters is 1 or 3.	
	Polyamide	HW-GA1N	HW-GA1NPN02	2	Applicable model: Illuminated pushbuttons Illuminated selector switches Applicable load (LED lamp) LSRD-6, LSTD-6 (6V AC/DC) LSRD-1, LSTD-1 (12V AC/DC) LSRD-2, LSTD-2 (24V AC/DC)	
	100/110V AC	HW-T16	HW-T16	1	Applicable model: Illuminated pushbuttons	
	200/220V AC	HW-T26	HW-T26	1	Illuminated selector switches • Applicable load (LED lamp) LSRD-6, LSTD-6 (6V AC/DC)	
	100/110V AC	TWR-016B	TWR-016B	1	Mounting screws are not included. See B-347 for mounting screws.	
For TWN/TWND 69g approx.		TWR-026B	TWR-026B	1	Applicable load (LED lamp) LSRD-6, LSTD-6 (6V AC/DC)	
		NC contact EM contact (early make) LB contact (late break) Polyamide 100/110V AC 200/220V AC 100/110V AC 200/220V AC	NC contact	NC contact	NC contact	

¹⁾ For use as maintenance parts. Do not use for expansion or remodelling purposes.

ED Lamps (Use LED lamps for replacing incandescent lamps)

	Operating	Currer	nt Draw				Package	_
Model	Voltage	DC DC		Part No.	Ordering No.	Color Code	Quantity	Base
LSRD	6V AC/DC	10mA	14mA	LCDD C	LSRD-6		1	
	OV AC/DC	TUITIA	14IIIA	LSRD-6	LSRD-6PN10		10	
100	12V AC/DC	7mA	8mA	LSRD-1	LSRD-1		1	BA9S
6	12V AU/DU	/IIIA	OIIIA	LOND-1	LSRD-1PN10	_	10	/13
	24V AC/DC	7mA	8mA	LSRD-2	LSRD-2		1	
	24V AG/DG	TIIIA	OHIA	LOND-Z	LSRD-2PN10		10	
LSTD	6V AC/DC	7mA (R, A, W) 5.5mA (G, PW)	8mA (except S)	LSTD-6*	LSTD-6*		1	BA9S /13
	OV AC/DC	4.5mA (S)	7mA (S)	LOID-U*	LSTD-6*PN10	R, G, A, W, S,PW	10	
0 600	12V AC/DC	10mA (except S)	11mA (except S)	LSTD-1*	LSTD-1*		1	
	12V AU/DU	8mA (S)	9mA (S)	LOID-I*	LSTD-1*PN10		10	
	24V AC/DC	10mA (except S)	11mA (except S)	LSTD-2*	LSTD-2*		1	
	24V AG/DC	8mA (S) 9mA (S)		LSTD-Z*	LSTD-2*PN10		10	
LETD	6V AC/DC	14mA (R, A, W)	17mA (R, A, W)	LETD-6*	LETD-6*		1	
	OV AC/DC	5.5mA (G, S, PW)	8mA (G, S, PW)	LEID-0*	LETD-6*PN10		10	
	12V AC/DC	13V AC/DC 6.5mA		LETD-8*	LETD-8*	R, G, A, W, S, PW	1	E12
The state of the s	12V AO/DC	(10mA: at 15V)	(11mA: at 15V)	LLID-0*	LETD-8*PN10	11, u, A, W, S, FW	10	/15
	24V AC/DC	10mA	11mA	LETD-2*	LETD-2*		1	
	24V AU/DU	TOTIA	TIMA	LEID-Z*	LETD-2*PN10		10	

- Only one color is available for LSRD so there are no codes to specify the color in the part no.
 Specify a color code in place of * in Part No. R (red), G (green), A (amber), W (white), S (blue), PW (pure white)
- Use a PW (pure white) LED for Y (yellow) illumination.
- When replacing the LED with LSRD, the lens must also be replaced (see B-341).

Pilot Lights
Control Boxes
Emergency Stop Switches
Enabling Switches
Safety Products
Explosion Proof
Terminal Blocks
Relays & Sockets
Circuit Protectors
Power Supplies
ED Illumination
Controllers
Operator

Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature

Pilot Lights

ARN

CS

Maintenance Parts

LED lamps for replacing incandescent lamps

Incandescent Lamp					
Model (mm)	Part No.	Operating Voltage	Lamp Rating	Base	
LS	LS-6	6V AC/DC	1W (6V)		
-1	LS-8	12V AC/DC	1W (18V)	BA9S	
Bulb: ø11	LS-2	18V AC/DC	1W (24V)	/13	
Length: 23	LS-3	24V AC/DC	1W (30V)		
LE	LE-6	6V AC/DC	2W (6V)		
	LE-8	12V AC/DC	2W (18V)	E12	
Bulb: ø13	LE-2	18V AC/DC	2W (24V)	/15	
Length: 34	LE-3	24V AC/DC	2W (30V)		

• When replacing incandescent lamps to LSRD, the lens must also be replaced (see B-341).

Incandescent Lamp							Replacement LED Lamp			
ı	Model (mm)	Part No.	Operating Voltage	Lamp Rating	Base		Part No.	Color Code	Operating Voltage	Base
LS)	LS-6	6V AC/DC	1W (6V)			LSRD-6		6V AC/DC	
1 6	1	LS-8	12V AC/DC	1W (18V)	BA9S		LSRD-1		12V AC/DC	BA9S
'	Bulb: ø11	LS-2	18V AC/DC	1W (24V)	/13		LSRD-2		24V AC/DC	/13
	Length: 23	LS-3	24V AC/DC	1W (30V)			LSRD-2		24V AC/DC	
LE		LE-6	6V AC/DC	2W (6V)			LETD-6*		6V AC/DC	
		LE-8	12V AC/DC	2W (18V)	E12		LETD-8*	R, G, A,	12V AC/DC	E12
	Bulb: ø13	LE-2	18V AC/DC	2W (24V)	/15		LETD-2*	S, PW	24V AC/DC	/15
	Length: 34	LE-3	24V AC/DC	2W (30V)			LETD-2*		24V AC/DC	
• Only	one color is availa	ble for LSF	RD so there ar	e no codes	to speci	fy the colo	r in the par	t no.		

- When using a commercially available incandescent lamp, choose a lamp with the same dimensions, operating voltage, and base.
- Specify a color code in place of * in Part No. R (red), G (green), A (amber), S (blue), PW (pure white)
- Use a PW (pure white) LED lamp for Y (yellow) illumination.
- For O (orange) and C (clear) color code of incandescent lamp, use A (amber) LED lamp.

APEM

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets Circuit

Protectors

Power Supplies

LED Illumination

Controllers Operator

Interfaces

Flush Silhouette

Sensors

AUTO-ID

ø16

ø22

Transformer

Shape	Operating Voltage	Voltage Range	Part No. (Ordering No.)	Applicable Load	
For 6V	100/110V AC	±10%	TWR516	LSRD-6, LSTD-6* (6V AC/DC, LED lamp)	
	200/220V AC	±10%	TWR526	Specify a color code in place of * in Part No. R (red), G (green), A (amber), S (blue),	
10	400/4440V AC	±10%	TWR546	PW (pure white)	
For 24V	100/110V AC	±10%	TWR512	LSRD-2, LSTD-2* (24V AC/DC, LED lamp)	
-1	200/220V AC	±10%	TWR522	Specify a color code in place of * in Part No.	
	400/4440V AC	±10%	TWR542	R (red), G (green), A (amber), S (blue), PW (pure white)	

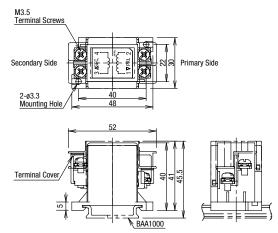
• Terminal cover (TWR-VL3) is installed on transformers as standard.

Specifications

Part No.	TWR5□6	TWR5□2		
Rated Voltage	100/110V AC, 200/220V AC, 400/440V AC (50/60 Hz)			
Current Draw	2.4VA			
Rated Insulation Voltage	600V			
Insulation Resistance	100MΩ minimum (500V DC	megger)		
Operating Temperature	-30 to 60°C (no freezing)			
Operating Humidity	35 to 85% RH (no condensation)			
Storage Temperature	-40 to +80°C (no freezing)			
Vibration Resistance	Damage limits: 30 Hz, amplitude 1.5 mm			
VIDIALIUII NESISLAIICE	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm			
Shock Resistance	1000 m/s ²			
SHOCK RESISTANCE	100 m/s ²			
Dielectric Strength	2500V AC, 1 minute			
Terminal Screw	M3.5			
Applicable Wire	2 mm² maximum, 2 wires maximum			
Weight	87g			

Dimensions

All dimensions in mm.



Miniature Pilot Lights

ARN

CS

Accessories

Shape	Material	Part No.	Ordering No.	Package Quantity	Dimensions (mm)
DIN 35 mm Rail Weight: 200g approx.	Aluminum Length: 1000 mm	BAA1000	BAA1000PN10	10	12.5 1.7 12.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
End Clip Weight: 15g approx.	Metal (zinc-plated steel) Applicable rail: BAA1000 BAP1000	BNL6	BNL6PN10	10	M4 screw

• See H-071 for DIN rail products.



Safety Precautions

- Turn off the power to the TWN/TWND switches & pilot lights before starting may cause electrical shocks or fire hazard.
- For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the terminal screws to the recommended tightening torque (see B-349). Failure to tighten terminal screws may cause overheat and
- When using a commercially available lamp, choose a lamp with rated voltage sure of correct operation before installation. The operation of illuminated pushbutton switches cannot be guaranteed when a commercially available

APEM

Control Boxes

Emergency Stop Switches Enabling

Safety Products

Switches

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit

Protectors **Power Supplies**

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

ARN CS

installation, removal, wiring, maintenance, and starting installation, removing, wiring, maintenance, and inspection of the products. Failure to turn power off

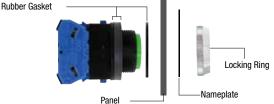
• To avoid a burn on your hand, use the lamp holder tool when replacing lamps.

5 to 30V AC/DC and 1W maximum, and with the same base and shape. Make lamp is used.

Operating Instructions

Panel Mounting

- 1. Remove the locking ring from the operator and check that the rubber gasket is in place. For mushroom and jumbo mushroom switches, remove the button before removing the locking ring.
- 2. Adjust the thickness of the rubber washers according to the panel thickness.
- 3. Insert the switch into the panel from the back of the panel.
- 4. On the panel front, install the nameplate and locking ring. For mushroom and jumbo mushroom switches, install the button before installing the locking ring.



Panel Thickness and Rubber Washer

Adjust the thickness of the rubber washers according to the panel thickness as shown in the tables below. Also, make sure to include the nameplate thickness when using a nameplate.



Illuminated pushbutton (extended w/full shroud)

Rubber Washer

1.5 mm-thick 3.0 mm-thick

1

3.0 mm-thick

Applicable Model

TWN/TWND series

(flush/extended/mushroom/jumbo mushroom) Illuminated pushbutton (extended/mushroom) Pilot light (except for square type)

Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	2 pieces	1			
0.8 to 3.5	2 pieces	1			
3.5 to 5.0	1	1			
5.0 to 6.5	_	1			
6.5 to 7.5	1	_			

*1: (6.5) is for mushroom pushbuttons with full shroud

2 pieces

2 pieces

TWND series

Pin lock pushbutton

TWN/TWND series

Thickness (mm)

Supplied

0.8 to 3.5

2.0 to 3.5

3.5 to 5.0 5.0 to 6.0 (6.5)*

Mushroom with full shroud

	Panel	Rubber Washer		
	Thickness (mm)	1.5 mm-thick	3.0 mm-	
	Supplied	2 pieces	1	
k	0.8 to 3.0	2 pieces	1	
4	3.0 to 4.5	1	1	
4	4.5 to 6.0	-	1	
┙╷	6.0 to 7.5	1	_	

TWN/TWND series

TWN/TWND series

Illuminated pushbutton

Panel

Thickness (mm)

Supplied 0.8 to 1.8 1.8 to 3.5

(extended with half shroud)

Pushbutton (extended with full shroud)

Pushbutton (extended with half shroud)

Rubber Washer

1.5 mm-thick 3.0 mm-thick

Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	2 pieces	1			
0.8 to 2.5	2 pieces	1			
2.5 to 4.0	1	1			
4.0 to 5.5	_	1			
5.5 to 6.0	1	_			

TWN/TWND series

Other models (excluding square)

Panel	Rubber Washer				
Thickness (mm)	1.5 mm-thick	3.0 mm-thick			
Supplied	2 pieces	1			
0.8 to 3.5	2 pieces	1			
3.5 to 5.0	1	1			
5.0 to 6.5	_	1			
6.5 to 7.5	1	_			

• See B-324 for square pilot lights about installing on the panel and replacing LED lamps.

Notes for Panel Mounting

Locking ring wrench recommended torque

Tighten the bezel to a tightening torque of 3.0 to 3.5 N·m.

Locking ring wrench

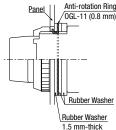
Locking ring wrench (OR-12) can be used to tighten the bezel. Use side B to tighten. Side B: For TWN/TWND series Side A: TWS series



Installing the Anti-rotation Ring (OGL-11)

Anti-rotation rings are used on selector switches or pushbuttons which rotate and used when using no nameplates. Insert a 1.5 mm-thick rubber washer between the panel and the anti-rotation ring as shown on the right.

To install, adjust the panel thickness by taking the thickness of anti-rotation ring (OGL-11) into consideration.



Replacement of LED Lamps

Lamps can be replaced by using the lamp holder tool (OR-55) from the front of the panel. (See B-338 for lamp holder tool.)

How to Remove

To remove, slip the lamp holder tool onto the lamp head lightly. Then push slightly, and turn the lamp holder tool counterclockwise.



How to Install

To install, insert the lamp head into the lamp holder tool. Place the two pins on the lamp base to the grooves in the lamp socket. Inset the lamp and turn it clockwise.



The number of rubber washers shown in the dimensions of TWN/TWND series may differ from the number of rubber washers supplied.

Control Boxes

Stop Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

LED Illumination

Controllers

Operator

Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

Circuit

Protectors **Power Supplies**

Emergency

Enabling

Switches

Operating Instructions

Installing/Removing the Buttons and Lenses

To install

Pushbutton button

Flush/Extended

Push in the button to install.



Insert a flat screwdriver between the button and the bezel to remove the button (see below for details).

To remove



-Notches

Notches on the operating shaft

The operating shaft has four notches as shown at right. Insert a flat screwdriver (3 mm max.) into one of the notches, and tilt the screwdriver to remove the button.



Make sure to insert a flat screwdriver into one of the notches, otherwise the pushbutton may be damaged.

Notes on button removal

To avoid damaging the bezel or the button, remove the bezel from the pushbutton before inserting a flat screwdriver.

Mushroom/ **Jumbo Mushroom**

Button has threads. Turn clockwise to install the button.



Turn the button counterclockwise to remove.



Illuminated Pushbutton Lens

Extended/Mushroom

Lens has threads. Turn clockwise to install the lens.



Turn the lens counterclockwise to remove.



Pilot Light Lens Round

Lens has threads. Turn clockwise to install the lens.



Turn the lens counterclockwise to remove.



A rubber gasket is installed between the lens and operator on pilot lights. Make sure that the rubber gasket is in place when installing the lens.

Marking Plate on Pilot Lights

Rectangular Marking Plates (for UPQN4)

Removina

① Insert a flat screwdriver between the lens and bezel, and tilt the screwdriver to remove the lens.



Engraving Area

Material: Acrylic resin Size:

29.8 W × 23.8 D, thickness 2.0 mm Engraving area:

 $28 \text{ W} \times 22 \text{ D} \times 1.0 \text{ mm}$ height max.

② A white marking plate is installed in the lens which can be removed easily.

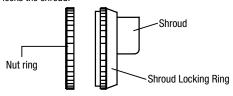


Engraving Area 28 29.8

Installing the Half Shroud on Extended Pushbuttons/ **Illuminated Pushbuttons**

Half Shroud Parts

A shroud is installed in the shroud locking ring. Tightening the shroud locking ring in the switch locks the shroud.

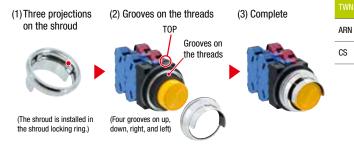


Installing the Half Shroud

- ① Adjust the thickness of the rubber washers according to the panel thickness (see B-345).
- ② Insert the switch into the panel from the back of the panel.
- 3 Install the nut ring from the panel front to tighten the switch.
- (4) Install the half shroud on the upper side of the switch, and tighten the shroud
- (5) Make sure that the shroud is securely fastened inside the shroud locking ring.

Tightening the Half Shroud

Align the three projections on the shroud with the groove on the switch, and tighten the shroud on the upper side of the switch. Tighten the shroud locking





- Shrouds may rattle depending on the panel thickness.
- · A gap may appear between the nut ring and the shroud locking ring depending on the panel thickness.



Operating Instructions

Selector Switches

Turn the operator such as knob, lever, and key to each position accurately. Releasing halfway may cause the operator to return to the former position, or to get stuck between. On spring return two-way types, the center of operators may be misaligned slightly.

APEM

Control Boxes Emergency Stop Switches Enabling

Safety Products

Switches

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette ø16

ø22

Miniature

Pilot Lights

ARN

CS

Key Selector Switches

Insert the key completely before turning. Failure to do so may cause failures.

Installing the Operator on Selector Switches

① Install the switch with TOP marking facing upward, so that the operator can be installed on the switch in the correct direction.



2 On non-illuminated models, install the color insert in the middle of operator. The color insert also serves to retain the operator.

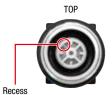


3 On illuminated models, align the operator with the switch by confirming the TOP marking on the switch and also the switch operation. Then press in the operator into the switch.



Installation of Selector Operators

The shaft of each non-illuminated selector switch has a recess to identify in which direction to install the operator. Align the operator with the recess and press in the operator. Press a color insert (non-illuminated) into the operator (illuminated selector switches do not have a recess on the shaft).





90° 2-position



45° 3-position

The non-illuminated operators can be installed in positions other than the standard position shown above







Standard positions

Removal

Removing the Operator from Selector Switches



(1) Insert a flat screwdriver into the recess under the color insert. Turn the screwdriver to push out the insert from the operator.



2 Pull out the operator sideways as shown in the left photo to remove the

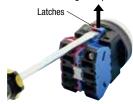
Removing the Operator from Illuminated Selector Switches



- ① Insert a flat screwdriver (4 to 5 mm) into the recess at right or left under the operator and tilt. The operator is displaced slightly.
- 2 Insert the flat screwdriver into the other recess and tilt. The operator can be removed.

Removing the Contact Blocks/Full Voltage Adapters

Insert a flat screwdriver (4 to 6 mm) into the snap-fit latches of the contact block or full voltage adapter and lift to remove.



- Make sure to lift both latches. Contact blocks cannot be removed by lifting one latch only.
- . Do not apply excessive force to the latches, otherwise damage maybe

Transformer Units and DC-DC Converters

Insert the end of the contact block removal tool (TW-KC1) into the snap-fit latch of the transformer units or DC-DC converter and pull the tool forward. The contact block removable tool cannot be used to remove the HW-U contact blocks or full voltage adapters.



🗥 When replacing parts (contact block, dummy block, full voltage adapter, transformer) for maintenance, make sure to install the parts to the original position. Otherwise proper operation cannot be guaranteed

Transformer Units and DC-DC Converters for Pilot Lights

Unfasten the two mounting screws on the back to remove the transformer unit/ DC-DC converter.



Mounting screws

APN: M3 × 6 (screw diameter ø5.5 or below) APD: M3.5 × 6 (screw diameter ø5.5 or below)

Operating Instructions

Applicable Wiring

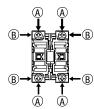
(1) Contact Block 0.3 to 3.5 mm² (solid wire 0.5 to 2.0 mm)

Pushbutton/illuminated pushbutton/selector switch/ illuminated selector switch/selector pushbutton

A and B show the wiring direction to the terminals.

<Contact Block>

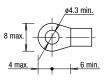
Terminal screws M3.5 (spring-up)

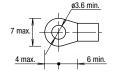


Applicable Crimping Terminal

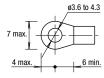
Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

Crimping terminal for (A)



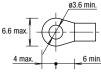


IP20 crimping terminal

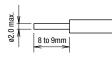


Crimping terminal for (B)

IP20 crimping terminal







- Strip the wire insulation 8 to 9 mm from the end.
- Insert the wire until the insulation comes into contact with the terminal metal part.

(1)-1 IP20 Degree of Protection

The terminal of HW-U contact block has IP20 degree of protection. When IP20 is required for wiring, observe the followings.

Make sure to insert the crimping terminal or wire to the terminal straight and fully.

When using a crimping terminal

Use IP20 crimping terminals.

When using a solid wire

Strip the wire insulation 8 to 9 mm from the end and insert the wire to the terminal fully.

When using a stranded wire

Strip the wire insulation 8 to 9 mm from the end and insert the wire to the terminal fully. Make sure that the wires are not loosened.

(2) Power Unit

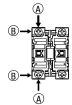
0.3 to 2 mm² (solid wire 0.5 to 1.6 mm)

Illuminated pushbutton/illuminated selector switch

A and B show the wiring direction to the terminals.

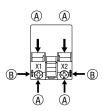
<Full Voltage Adapter>

Terminal screws M3.5 (spring-up)



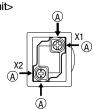
<Transformer Unit>

100/110V AC, 200/220V (240V AC or below) Terminal screws M3.5 (spring-up)



<DC-DC Conver Unit/Transformer Unit>

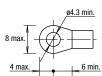
110V DC. 380V Terminal screws M3.5 (spring-up)

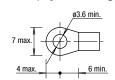


Applicable Crimping Terminal

Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

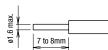
Crimping terminal for (A)





Crimping terminal for (B)

Solid wire



- Strip the wire insulation 7 to 8 mm from the end.
- Insert the wire until the insulation comes into contact with the terminal metal part.
- . Terminal cover is integrated in the full voltage adapter and transformer unit. Note that the connection terminal is not IP20.

APEM

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Blocks Relays & Sockets

Circuit Protectors

Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16

ø22

Miniature

Pilot Lights

ARN

CS

Control Boxes

Emergency Stop Switches Enabling

Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit

Protectors

Power Supplies

LED Illumination

Operator Interfaces

Sensors

AUTO-ID

Flush Silhouette

ø16 ø22

ø30 TWN/TWND Series

Operating Instructions

(3) Pilot Light 0.3 to 2 mm² (solid wire 0.5 to 1.6 mm)

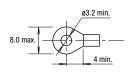
Applicable crimping terminal

Be sure to use an insulation tube or cover on the crimping part of the crimping terminal to prevent electrical shocks.

APN1, UPQN3B, UPQN4 (6, 12, 24V AC/DC)

Terminal screws M3 (self-lifting)

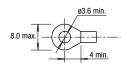
(Arrows show the wiring direction)





APD1 (6, 12V, 24V AC/DC)

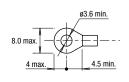
Terminal screws M3.5 (self-lifting)





APN1, UPQN3B, UPQN4, APD1 (100 to 480V AC or below, 110V DC)

Terminal screws M3.5 (self-lifting)





- Install the terminal cover supplied with the pilot light. The connection terminal is not IP20.
- When selecting mounting centers and crimping terminals, take sufficient insulation distance into consideration.

Cautions for Wiring

About using DC-DC Converter Unit

1. Note the polarity for wiring when connecting to the DC-DC converter.

Terminal No.	Polarity
X1	Positive
X2	Negative

- 2. Incandescent lamps cannot be used in DC-DC converter unit.
- DC-DC converters are equipped with an electric circuit and noise may be heard inside the unit, which does not affect the performance of DC-DC converters

Recommended Tightening Torque Number of Wires

Unit		Wire	Number of Wires	Recommended Tightening Torque (Nm)	Terminal Screw
	Crimp	oing Terminal	2	1.0 to 1.3	
	Solid	ø0.5 to 1.6 mm (AWG14 to 22)	2	1.0 to 1.3	
HW-U Contact	Wire	ø1.7 to 2.0 mm (AWG12)	1	1.2 to 1.3	M3.5
Block	Stranded	0.3 to 2.0 mm ² (AWG14 to 22)	2	1.0 to 1.3	
V	Wire	2.1 to 3.5 mm ² (AWG12)	1	1.2 to 1.3	
	Crimp	oing Terminal			
Illuminated Unit (*1)	Solid Wire	ø0.5 to 1.6 mm (AWG14 to 22)	2	1.0 to 1.3	M3.5
Ullit (1)	Stranded Wire	0.3 to 2.0 mm ² (AWG14 to 22)			
	Crimp	oing Terminal			
Pilot Light	Solid Wire	ø0.5 to 1.6 mm (AWG14 to 22)	2	0.6 to 1.0 (M3.0)	
	Stranded Wire	0.3 to 2.0 mm ² (AWG14 to 22)		1.0 to 1.3 (M3.5)

^{*1)} Lamp terminal of illuminated pushbuttons and illuminated selector switches

TWI

Miniature Pilot Lights

ARN

CS

Control Boxes Emergency Stop Switches Enabling Switches Safety Products **Explosion Proof** Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces Sensors AUTO-ID

Flush Silhouette

ø16 ø22

Miniature Pilot Lights

ARN CS

ø30 Selector Switches / Pushbuttons Part Number Replacement List

	Old Series	2		
Model	Operator	Old Part No.	New Part No. (*3)	Remarks
		ASN310	ASN210N	
		ASN311	ASN211N	
		ASN320	ASN220N	
		ASN322	ASN222N	
		ASN37S ASN410	ASN22RN-118	
		ASN410 ASN411	ASN2110N ASN2111N	
		ASN420	ASN2120N	
		ASN422	ASN2122N	
	90°	ASN47S	ASN212RN-118	
	2-position	ASN3010	ASN201N	(*2)
		ASN3011	ASN211N	(*1)
		ASN3020	ASN202N	(*2)
		ASN3022	ASN222N	(*1)
		ASN307S	ASN22RN-118	(*1)
		ASN4010	ASN2210N	
		ASN4011	ASN2211N	
		ASN4020 ASN4022	ASN2220N ASN2222N	
ASN		ASN4022 ASN407S	ASN222RN-168	
Knob		ASN111	ASN320N	(*2)
Operator		ASN122	ASN340N	(*2)
		ASN15S	ASN322N	
		ASN17S	ASN302N	(*1)
		ASN18S	ASN304N	(*1)
		ASN211	ASN3220N	(*2)
		ASN222	ASN3240N	(*2)
	45° 3-position	ASN25S	ASN3222N	
		ASN27S	ASN3202N	(*1)
		ASN28S	ASN3204N	(*1)
		ASN1011 ASN1022	ASN320N ASN340N	(*1) (*2)
		ASN1022 ASN105S	ASN322N	(*1) (*2) (*1)
		ASN107S	ASN302N	\ ''
		ASN108S	ASN304N	
		ASN2011	ASN3120N	(*1) (*2)
		ASN2022	ASN3140N	(*1) (*2)
		ASN205S	ASN3122N	(*1)
		ASN207S	ASN3102N	
		ASN208S	ASN3104N	
		ASN3L10	ASN2L10N	
		ASN3L11	ASN2L11N	
		ASN3L20 ASN3L22	ASN2L20N ASN2L22N	
		ASN3L7S	ASN2L2RN-118	
		ASN4L10	ASN21L10N	
		ASN4L11	ASN21L11N	
		ASN4L20	ASN21L20N	
		ASN4L22	ASN21L22N	
	90°	ASN4L7S	ASN21L2RN-118	
	2-position	ASN30L10	ASN2L01N	(*2)
		ASN30L11	ASN2L11N	(*1)
ASN-L		ASN30L20	ASN2L02N	(*2)
Lever		ASN30L22	ASN2L22N	(*1)
Operator		ASN30L7S	ASN2L2RN-118	(*1)
oporator		ASN40L10	ASN22L10N	
		ASN40L11 ASN40L20	ASN22L11N ASN22L20N	
		ASN40L20 ASN40L22	ASN22L20N ASN22L22N	
		ASN40L7S	ASN22L2RN-168	
		ASN1L11	ASN3L20N	(*2)
		ASN1L22	ASN3L40N	(*2)
		ASN1L5S	ASN3L22N	\
	45°	ASN1L7S	ASN3L02N	(*1)
	3-position	ASN1L8S	ASN3L04N	(*1)
		ASN2L11	ASN32L20N	(*2)
		ASN2L22	ASN32L40N	(*2)
		ASN2L5S	ASN32L22N	1

	Old Series			_
Model	Operator	Old Part No.	New Part No. (*3)	Remarks
		ASN2L7S	ASN32L02N	(*1)
ASN-L		ASN2L8S	ASN32L04N	(*1)
		ASN10L11	ASN3L20N	(*1) (*2)
		ASN10L22	ASN3L40N	(*1) (*2)
		ASN10L5S	ASN3L22N	(*1)
Lever	45°	ASN10L7S	ASN3L02N	
Operator	3-position	ASN10L8S	ASN3L04N	
		ASN20L11	ASN31L20N	(*1) (*2)
		ASN20L22	ASN31L40N	(*1) (*2)
		ASN20L5S	ASN31L22N	(*1)
		ASN20L7S	ASN31L02N ASN31L04N	
		ASN20L8S		
		ASN3K10□ ASN3K11□	ASN2K10N□-N024401 ASN2K11N□-N024401	
		ASN3K20□	ASN2K11N□-N024401 ASN2K20N□-N024401	
		ASN3K22□	ASN2K22N□-N024401	
		ASN3K7S□	ASN2K2RN□-118-N024401	
		ASN4K10	ASN21K10N-N024401	
		ASN4K11	ASN21K11N-N024401	
		ASN4K20	ASN21K20N-N024401	
		ASN4K22	ASN21K22N-N024401	
	90°	ASN4K7S	ASN21K2RN-118-N024401	
	2-position	ASN30K10□	ASN2K01N□-N024401	(*2)
		ASN30K11□	ASN2K11N□-N024401	(*1)
		ASN30K20□	ASN2K02N□-N024401	(*2)
		ASN30K22□	ASN2K22N□-N024401	(*1)
		ASN30K7S□	ASN2K2RN□-118-N024401	(*1)
		ASN40K10	ASN22K10N-N024401	
		ASN40K11	ASN22K11N-N024401	
		ASN40K20	ASN22K20N-N024401	
ASN-K		ASN40K22	ASN22K22N-N024401	
Key		ASN40K7S	ASN22K2RN-168-N024401	(+0)
Selector		ASN1K11	ASN3K20N□-N024401	(*2)
		ASN1K22□	ASN3K40N□-N024401	(*2)
		ASN1K5S□ ASN1K7S□	ASN3K22N□-N024401 ASN3K02N□-N024401	(*1) (*2) (*1) (*2)
		ASN1K8S□	ASN3K04N - N024401	(*1) (*2)
		ASN2K11□	ASN32K20N□-N024401	(*2)
		ASN2K22□	ASN32K40N□-N024401	(*2)
		ASN2K5S□	ASN32K22N□-N024401	(*1) (*2)
		ASN2K7S□	ASN32K02N□-N024401	(*1) (*2)
	45° 3-position	ASN2K8S□	ASN32K04N□-N024401	(*1) (*2)
		ASN10K11□	ASN3K20N□-N024401	(*1) (*2)
		ASN10K22□	ASN3K40N□-N024401	(*1) (*2)
		ASN10K5S□	ASN3K22N□-N024401	(*1) (*2)
		ASN10K7S□	ASN3K02N□-N024401	(*2)
		ASN10K8S□	ASN3K04N□-N024401	(*2)
		ASN20K11□	ASN31K20N□-N024401	(*1) (*2)
		ASN20K22	ASN31K40N□-N024401	(*1) (*2)
		ASN20K5S	ASN31K22N -N024401	(*1) (*2)
		ASN20K7S	ASN31K02N -N024401	(*2)
		ASN20K8S	ASN31K04N□-N024401	(*2)
	90° 2-position	ASTN3211 ASTN3222	ASN211N ASN222N	(*1)
		ASTN3222 ASTN4211	ASN2111N	(1)
	- position	ASTN4211 ASTN4222	ASN2111N ASN2122N	(*1)
ASTN Knob Operator		ASTN4222 ASTN1122	ASN322N	''
		ASTN1222	ASN322N-311	
		ASTN1340	ASN340N	
		ASTN1422	ASN322N-209	
	45° 3-position	ASTN1520	ASN320N	
		ASTN1540	ASN340N	(*1)
		ASTN1611	ASN311N-303	
		ASTN1622	ASN322N-310	
		ASTN2122	ASN3222N	
		ASTN2222	ASN3222N-311	
		ASTN20122	ASN3122N	
		ACTNOCOO	ACMOTOON OTT	I

ASTN20222

ASN3122N-311

[•] \square : Key removable position code. Specify the same code as the old series.

^{*1)} The location of contacts is different. In application for maintenance purpose, make sure of contact operation before wiring.

^{*2)} Contact operation is same as the old series, but contact type is different.

^{*3)} The knob operator is diecast zinc and has new shape. The knob operator can be installed at 45 degrees intervals.

ø30 Selector Switches / Pushbuttons Part Number Replacement List

Mode	e e	Old Series				
ASTN ACD Operator Op	E	Model	1		New Part No. (*3)	Remarks
APEM	gh:	IVIOUEI	Operator		Δ\$N3122N_20Q	
APEM Svilcaes & Pieta Lights Control Boxes Energency Stop Switches Energency Stop Switches Energency Stop Switches Enabling Switches Enabling Switches Energency Stop Switches Enabling Switches Energency Stop Switches Enabling Switches Enabling Switches Energency Stop Switches Enabling Switches Enab	ङ					(*1)
APEM Syntches Aposition Apposition		ASTN				
Sylicities Spicitions Sylicitions Sylicities Safety Products Emergency Stop Switches Safety Products Safety Products Safety Products Safety Products Safety Products Sylicities Safety Products Safety Sylicities Safety Products Safety Products Safety Sylicities Safety Products Safety Sylicities Safety Sylicities Safety Products Safety Sylicities Saf						(',
Sint Ches ASTN 202		Operator	3-position			
ASTINULED ASTI				ASTN5222		
Samura				ASTN5111		
Stop Switches Safety Products				ASTN32L11	ASN2L11N	
ASTN#2L22	Control Boxes			ASTN32L22	ASN2L22N	(*1)
Enabling Switches	Emergency					
Switches	Stop Switches					(*1)
ASTN Lever						
Explosion Proof Terminal Blocks Relays & Sockets	Switches					
Explosion Proof Terminal Blocks Relays & Sockets Circuit Protectors Power Supplies LED Illumination Controllers Operator Operator Operator Operator ASTNI 5120 ASTN2122 ASN32122N ASTN2122 ASN32122N ASTN2122 ASN32122N ASTN2122 ASN31122N ASTN2122 ASN31122N ASTN2122 ASN31122N ASTN2122 ASN31122N ASTN20122 ASN31122N ASTN20122 ASN31120N ASTN205120 ASTN205120 ASTN3110N ASTN205120 ASTN3110N ASTN205120 ASTN3110N ASTN31110 ASTN31110 ASTN31110 ASTN31110 ASTN31111 ASN33120N ASTN31111 ASN33121N ASTN31111 ASN33122N ASTN31111 ASN3312N ASTN3212 ASN3322N ASTN322N ASTN322N ASTN322N ASTN322N ASTN31140 ASTN32420 ASN3322N ASTN31420 ASN342N0 ASTN31420 ASN342N0 ASN340N0 ASTN15400 ASN340N0 (*1) ASTN15400 ASN340N0 (*1) ASTN15400 ASN342N0 ASN342N0 ASTN15420 ASN342N0 ASN342N0 ASTN15420 ASN342N0 ASN342N0 ASTN15420 ASN342N0 AS	Safety Products					
Terminal Blocks Relays & Sockets						/ *1 \
ASTNIBL Lever Operator Circuit Protectors ASTNIBL Lever Operator ASTNIBL Lever Operator ASTNIBL	Explosion Proof					_ ` _
Circuit Protectors	Terminal Blocks	ΛΩΤΛΙ Ξ Ι				(1)
Circuit Protectors Power Supplies	Torrillia Bioono	_				
Protectors	Relays & Sockets					
Protectors	Circuit					
Power Supplies			3-position			
LED Illumination Controllers	Power Cupalina					
ASTN205L40	rower supplies			ASTN204L22	ASN31L22N-209	
ASTN51L20	LED Illumination			ASTN205L20	ASN31L20N	(*1)
ASTN51L22 ASN33L22N ASTN51L22 ASN33L22N ASTN51L22 ASN33L22N-311 ASTN51L11 ASN33L11N-202 ASTN32K11□ ASN2K11N□ ASN2K11N□ ASTN32K12□ ASN2K22N□ (*1) ASTN42K11 ASN21K11N ASTN42K22 ASN3K22N□ ASTN12K22□ ASN3K22N□ ASTN12K22□ ASN3K22N□ ASTN12K22□ ASN3K22N□ ASTN12K22□ ASN3K22N□ ASTN14K22□ ASN3K22N□ ASTN15K20□ ASN3K40N□ (*1) ASTN15K20□ ASN3K40N□ (*1) ASTN15K20□ ASN3K40N□ (*1) ASTN15K20□ ASN3K2N□ -310 ASTN15K20□ ASN3K2N□ -310 ASTN15K20□ ASN3K2N□ -311 ASTN20K22□ ASN3K22N□ -311 ASTN20K22□ ASN3K22N□ -311 ASTN20K22□ ASN3K22N□ -311 ASTN20K22□ ASN31K22N□ -311 ASTN20M2N□ -311 ASTN20M2N□ -311 ASTN20M2N□ -311 ASTN20M2N□ -311 ASTN20M2N□				ASTN205L40	ASN31L40N	(*1)
ASTN52L22 ASN33L22N-311 ASTN51L11 ASN33L11N-202 ASTN51L11 ASN33L11N-202 ASTN51L11 ASN33L11N-202 ASTN32K11 ASN2K11N ASTN32K22 ASN2K22N (*1) ASTN42K22 ASN2K22N ASTN42K21 ASN3K22N ASTN12K22 ASN3K22N ASTN12K22 ASN3K22N ASTN12K22 ASN3K22N ASTN12K22 ASN3K22N ASTN12K22 ASN3K22N ASTN12K20 ASN3K20N ASTN15K40 ASN3K20N ASTN15K40 ASN3K20N ASTN15K40 ASN3K20N ASTN15K40 ASN3K20N ASTN16K11 ASN3K2N ASTN16K21 ASN3K22N ASTN20K22 ASN31K22N ASTN51K20 ASN31K20N ASTN51K20 ASN31K20N ASTN51K20 ASN31K20N ASTN51K20 ASN31K20N ASTN51K20 ASN31K20N ASTN51K22 ASN33K22N ASTN51K22 ASN33K22N ASTN51K22 ASN33K22N ASTN51K22 ASN33K22N ASTN51K22 ASN33K22N ASTN51K22 ASN33K20N ASTN51K22 ASN33K20N ASTN51K22 ASN33K20N ASTN51K22 ASN33K20N ASTN51K20 ASN31K20N ASTN51K20 ASN31K20N ASTN51K20 ASN31K20N ASTN51K20 ASN31K20N ASN15K20 ASN31K20N ASN31K20N ASN31K20N ASN31K20N ASN31K20N ASN31K20N ASN31K20N ASN31K20N	Controllers				ASN33L20N	
ASIN52L22	Operator					
AUTO-ID						
AUTO-ID AUTO-ID Plush Silhouette ### ### ### ### ### ### ### ### ### #	Seneore					
AUTO-ID AUT	0013013					/+d\
ASTN42K22 ASN21K22N (*1)	AUTO-ID					("1)
Flush Silhouette			2-position			/ *1 \
Flush Silhouette						(1)
Flush Silhouette						
### ASN-T Knob Operator ### ASN-T Lever ASN-T ASN-SUL40-T ASN-SUL40N ### ASN-T Lever ASN-SUL40-T ASN-SUL40N ### ASN-T Lever ASN-SUL40N ### ASN-T Lever ASN-SUL40N ### ASN-T Lever ASN-SUL40N ### ASN-SUL40-T ASN-SUL40N ### ASN-SUL4						
## ASTN ■ K	Flush Silnouette					
## ASTN ■ K	ø16					(*1)
Miniature				ASTN15K40□	ASN3K40N□	(*1)
Miniature A5° 3-position A5° A5	ø22	ASTN■K		ASTN16K11□	ASN3K11N□-303	
Miniature Pilot Lights ASN-T Knob Operator ASN-T Knob Operator ASN-T Lever Opera		, ,	1 E0	ASTN16K22□	ASN3K22N□-310	
Miniature	ø30			ASTN21K22□	ASN32K22N□	
ASIN201K22	Miniature					
ASTN204K22□ ASN31K22N□-209 ASTN205K20□ ASN31K20N□ (*1) ASTN205K40□ ASN31K40N□ (*1) ASTN51K20 ASN33K20N ASTN51K22 ASN33K22N ASTN51K22 ASN33K22N ASTN51K11 ASN33K11N-202 ASN120-T ASN320N ASN120-T ASN320N ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T ASN200-T A	ivinilatui 6		o position	407110001100		
ASIN204K22	Pilot Lights					
ASTN205K40						/*1)
ASTN51K20						
ASN-T Knob Operator ASN-T Knob Operator ASN-T Lever Operator AS						(1)
ASN-T ASN-						
ASN-T Lever Operator	IWN					
ASN-T Knob Operator ASN-T Knob Operator ASN-T Lever ASN-T Le	TWND					
ASN-T Knob Operator					ASN320N	
Knob Operator	ARN	Knob	45°			
Operator				ASN220-T	ASN3220N	
ASN2U2U-T ASN312UN (*1) ASN2U4U-T ASN314UN (*1) ASN1L2U-T ASN3L2UN ASN1L2U-T ASN3L2UN ASN1L4U-T ASN3L4UN ASN2L2U-T ASN3L2UN ASN2L2U-T ASN3L4UN ASN2L4U-T ASN3L4UN	CS		3-position			
ASN-T		οροιαιοι				
ASN-T Lever Operator 3-position ASN2L40-T ASN3L40N ASN2L20-T ASN32L20N ASN2L40-T ASN32L40N						(*1)
ASN-1		Lever				
Lever Operator 3-position ASN2L20-1 ASN32L20N ASN2L40N						
I Operator 1						
A3MZIII ZII-1 A3M311 ZIIM 1"11						/*1\
ASN20L20-1 ASN31L20N (1) ASN20L40-T ASN31L40N (*1)						
AUTOLETO I AUTOLETOR (1)				1.01420L40	AUTOTETON	. (1)

 Specify a color code in place of * in Part 	No. B (black), G (green), R (red), Y (yellow).
_ K	the control of the character of the control of the

 $[\]square$: Key removable position code. Specify the same code as the old series.

	Old Com	00					
Model	Old Seri Operator	Old Part No.	New Part No. (*3)	Remarks			
IVIOGCI	Орстатог	ASN3K10□-T	ASN2K10N□				
		ASN3K11□-T	ASN2K11N□				
		ASN3K20□-T	ASN2K20N□				
		ASN3K22□-T	ASN2K22N□				
		ASN3K7S□-T	ASN2K2RN□-118				
		ASN4K10-T	ASN21K10N				
		ASN4K11-T	ASN21K11N				
	90°	ASN4K20-T	ASN21K20N				
	2-position	ASN4K22-T	ASN21K22N				
		ASN4K7S-T	ASN21K2RN-118				
		ASN40K10-T	ASN22K10N				
		ASN40K11-T	ASN22K11N				
		ASN40K20-T	ASN22K20N				
		ASN40K22-T	ASN22K22N				
ASN■K-T		ASN40K7S-T	ASN22K2RN-168				
Key		ASN1K20□-T	ASN3K20N□				
Selector		ASN1K40□-T	ASN3K40N□				
		ASN1K5S□-T	ASN3K22N□				
		ASN1K7S□-T	ASN3K02N□	(*1)			
		ASN1K8S□-T	ASN3K04N□	(*1)			
		ASN2K20□-T	ASN32K20N□	1 ./			
		ASN2K40□-T	ASN32K40N□				
	45°	ASN2K5S□-T	ASN32K22N□				
	3-position	ASN2K7S□-T	ASN32K02N□	(*1)			
		ASN2K8S□-T	ASN32K04N□	(*1)			
		ASN20K20□-T	ASN31K20N□	(*1)			
		ASN20K40□-T	ASN31K40N□	(*1)			
		ASN20K5S□-T	ASN31K22N□	(*1)			
		ASN20K7S□-T	ASN31K02N□	''			
		ASN20K8S□-T	ASN31K04N□				
		ABN6111□	ASBN211N-A03□				
		ABN6411□	ASBN211N-K04□	(*2)			
		ABN9111□	N/A	(2)			
		ABN7120□	ASBN220N-D01□				
Selector		ABN6122□	ASBN222N-A08□	(*1)			
Pushbuttons		ABN6222□	ASBN222N-C10□	(*1)			
Ring		ABN6422□	ASBN222N-K15	(*2)			
Operator		ABN7122□	ASBN222N-D10□	(*1)			
Oporator		ABN7222□	ASBN222N-E10□	(*1)			
	90° - 2-position	ABN7322□	ASBN222N-F10□	(*1)			
		ABN9122□	N/A	1 1/			
		ABN6L111□	ASBN211N-A03□	(*4)			
		ABN6L411□	ASBN211N-K04□	(*2) (*4)			
		ABN9L111	N/A	(2) (4)			
		ABN6L122□	ASBN222N-A08□	(*1) (*4)			
Selector		ABN6L222	ASBN222N-A00	(*1) (*4)			
Pushbuttons		ABN6L422	ASBN222N-K15	(*2) (*4)			
Lever		ABN7L122	ASBN222N-N15	(*1) (*4)			
Operator		ABN7L122	ASBN222N-D10□ ASBN222N-E10□	(*1) (*4)			
			ASBN222N-E10□ ASBN222N-F10□				
		ABN7L322□ ABN9L122□	N/A	(*1) (*4)			
	Pin Lock	ABN8P10	ABD8P10N□	(*5)			
		ABN8P01	ABD8P01N□	(*5)			
		ABN8P11	ABD8P11N□	(*5)			
		ABN8P20	ABD8P20N□	(*5)			
		ABN8P02	ABD8P02N□	(*5)			
				(*5)			
Pushbuttons	ON Lock Type Pin Lock	ABN8P22 ABN8P10-TK231-1	ABD8P22N□ ABD8PN10N□	(*5)			
		ABN8P01-TK231-1	ABD8PN01N□	(*5)			
		ABN8P11-TK231-1	ABD8PN11N□	(*5)			
		ABN8P20-TK231-1	ABD8PN20N□	(*5) (*5)			
		ABN8P02-TK231-1	ABD8PN02N□				
		ABN8P22-TK231-1	ABD8PN22N	(*5)			
	Mushroom Pull	ATN2310□ ATN2211□	AZN310N				
		ATN2311□	AZN311N				
		ATN2320□ ATN2302□	AZN320N□	+			
		ATN2302□ AZN302N□ *3) The knob operator is diecast zinc and in new shape. The knob operator can be installed at					

^{*3)} The knob operator is diecast zinc and in new shape. The knob operator can be installed at 45 degrees intervals.

SEUEN01A_B TWN May 2020

^{*1)} The location of contacts is different. In application for maintenance purpose, make sure of contact operation before wiring.
*2) Contact operation is same as the old series, but contact type is different.

^{*4)} The new knob operator of selector pushbuttons is ring operator. The old series is lever operator.

^{*5)} Button material New series: plastic / Old series: metal