

AR series

Ø22, Ø25 retractable control switches



Via QR code more information via QR code.

Model	Push button switch		Illuminated pushbutton switch		Pilot lamp	
	Flush	Push button selector	Full guard	ON / OFF	AC	DC
Appearance						
Actuator code	ARF-F	ARF-S	ARX-P, G	ARX-S	ARP-A0	ARP-D0
Model	Selector switch	Illuminated selector switch	Key selector switch	Stop switch		
	Lever	Lever		Lever	Lever	
Appearance						
Actuator code	ARS-S, L	ART-2, 2R, 3	ARK-2, 2R, 3, 3L, 3LR	ARE-3, 4	ARE-4XR	

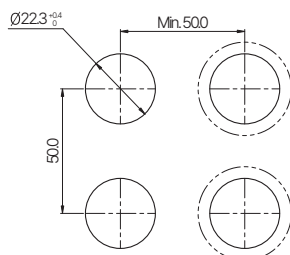
h Specification

Category	Content	
Contact configuration	M3.5 Screwing, 1a1b contact unit	
Contact operation	Slow-action	
Installation panel thickness	1 ~ 6 mm (excluding accessories)	
Tightening torque	0.8 N·m or less	
Rated current	250 V a.c.	
Current rating	5 A 250 V a.c.	
Conditional Short - Circuit Current	100 A	
Operating frequency	30 cycles/min	
Insulation Resistance	100 MΩ or more (500 V d.c.)	
Withstand voltage	2,000 V a.c. 50/60 Hz 1 minute	
Contact contact resistance	50 mΩ or less (at the time of shipment)	
Vibration resistance	10 ~ 55 Hz amplitude 1.5 mm	
Shock resistance	Durability	300 m/s ² or more (30 G or more)
	misoperation	100 m/s ² or more (10 G or more)
Life	Mechanical	More than 500,000 times
	Electrical	More than 100,000 times (at rated load)
LAMP Input Power	100 - 240 V a.c.	4.4 W or less (LED Condenser voltage drop)
	12 - 24 V d.c. / a.c.	0.5 W or less (LED Resistance voltage drop)
Ambient temperature	-20 ~ 55 °C (without ice or condensation)	
Ambient humidity	45 ~ 85% RH	
Storage temperature	-40 ~ 70 °C	

h Panel cutout

[Unit : mm]

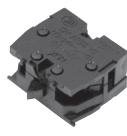



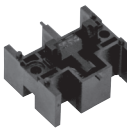

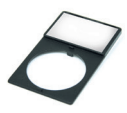




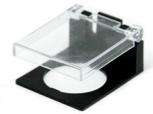


■ Ø22



h AR Accessories

Model	Emergency sign nameplate		Tightening tool	
	EN-26	HEG-22	FIX HEAD-MR	FIX HANDLE
Application Model	ARE	ARE	Ø22, Ø25	Ø22, Ø25
Appearance				

h Component Configuration

Model	Shape	Format	Note	Model	Shape	Format	Note	
Switch unit		AR-10a (1a Contact)	Replaced or added by using a bolt.	Square spinning prevention plate		AR-68	Prevents the spinning.	
		AR-20b (1b Contact)			Standard		AR-71	Attached to the standard type name plate and used.
Alternate operation unit		AR-50	Used when changing from a momentary operation to an alternate operation.	Name plates	Large		AR-72	Attached to the large type name plate and used.
Name platet		AR-62	Attaching a name plate prevents the spinning and looks more organized.	Water proof cap		AR-73, 74	Water proof silicon transparency rubber cap. AR-73 : For ARF-F AR-74 : For ARX-G	
		AR-63				AR-75, 76	Water proof silicon transparency rubber cap. AR-75 : For ARE-5B AR-76 : For ARE-7B	
Spin prevention ring		AR-65	Prevents the spinning and looks more organized.	Protective cover		AR-77	Used in order to prevent the switch to cause malfunction. But it only be used with the flush type.	
		AR-66	Prevents the spinning.	Guides Brackets		AR-67	Used when attaching onto Ø30 hole panel.	

h Suffix code

■ Push button Switch

● SET Suffix code

Model	Code			Content
ARF-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Push button Switch
Actuator	F			Flush
	S			Push button selector (*ARF-S specification is available in black only)
Operation function		1		Momentary
		2		Alternate
Contact composition		10		1a (1NO)
		20		1b (1NC)
		12		1a1b (1NO-1NC)
		11		2a (2NO)
		22		2b (2NC)
Actuator color		R		R (Red)
		G		G (Green)
		Y		Y (Yellow)
		A		A (Blue)
		W		W (White)
		B		B (Black)

● Top/bottom separation code(ex : ARF-FR + AR-110)

Model	Code		Content
ARF-	<input type="checkbox"/>	<input type="checkbox"/>	Push button Switch
Actuator	F		Flush
	S		Push button selector
Actuator color	R		R (Red), G (Green), Y (Yellow), A (Blue), W (White), B (Black)

Model	Code		Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>	Push button switch contact part
Operation function		1	Momentary
		2	Alternate
Contact composition		10	1a
		20	1b
		12	1a1b
		11	2a
		22	2b

■ Illuminated push button switch

● SET Suffix code

Model	Code					Content
ARX-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated push button switch contact part
Actuator	P					Protrusion
	G					Full guard
	S					ON · OFF push
	S2					I / O push (option)
Operation function	1					Momentary
	2					Alternate
Contact composition	10					1a (1NO)
	20					1b (1NC)
	12					1a1b (1NO-1NC)
	11					2a (2NO)
	22					2b (2NC)
Power supply voltage	A0					100-240 V a.c. L.E.D (Condenser voltage drop)
	D0					12-24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Actuator color	R					R (Red)
	G					G (Green)
	Y					Y (Yellow)
	A					A (Blue)
	W					W (White)

* ARX-S,S2 specifications can only select return type

* Actuator colors for ARX-S are only available in Red and Green.

● Top/bottom separation code (ex : ARX-PR + AR-110AOR)

Model	Code		Content
ARX-	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated push button switch
Actuator	P		Protrusion
	G		Full guard
	S		ON · OFF push
	S2		I / O push (option)
Actuator color	R		R (Red), G (Green), Y (Yellow), A (Blue), W (White)

* ARX-S,S2 specifications can only select return type

* Actuator colors for ARX-S are only available in Red and Green.

Model	Code					Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated push button switch contact part
Operation function	1					Momentary
	2					Alternate
Contact composition	10					1a (1NO)
	20					1b (1NC)
	12					1a1b (1NO - 1NC)
	11					2a (2NO)
	22					2b (2NC)
Power supply voltage	A0					100 - 240 V a.c. L.E.D (Condenser voltage drop)
	D0					12 - 24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Actuator color				R		R (Red), G (Green), Y (Yellow), A (Blue), W (White)

■ Selector switch

● SET Suffix code

Model	Code			Content
ARS-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Selector switch
Actuator	S			Standard type
	L			Long Lever
Operation function	2			2 Positions alternate operation
	2R			2 Positions momentary operation
	3			3 Positions alternate operation
	3L			3 Positions left momentary operation
	3R			3 Positions right momentary operation
	3LR			3 Positions left / right momentary operation
Contact composition	10			1a (1NO)
	20			1b (1NC)
	12			1a1b (1NO-1NC)
	11			2a (2NO)
	22			2b (2NC)

● Top/bottom separation code (ex : ARS-S2R + AR-110)

Model	Code			Content
ARS-	<input type="checkbox"/>	<input type="checkbox"/>		Selector switch
Actuator type	S			Standard type
	L			Long Lever
Operation function	2			2 Positions alternate operation
	2R			2 Positions momentary operation
	3			3 Positions alternate operation
	3L			3 Positions left momentary operation
	3R			3 Positions right momentary operation
	3LR			3 Positions left / right momentary operation

Model	Code			Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>		Selector switch contact part
Operation function	1			Momentary
Contact composition	10			1a (1NO)
	20			1b (1NC)
	12			1a1b (1NO - 1NC)
	11			2A (2NO)
	22			2b (2NC)

■ Illuminated selector switch

● SET Suffix code

Model	Code				Content
ART-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated selector switch
Actuator	2				2 Positions alternate operation
	2R				2 Positions momentary operation
	3				3 Positions alternate operation
Contact composition	10				1a (1NO)
	20				1b (1NC)
	12				1a1b (1NO-1NC)
	11				2a (2NO)
	22				2b (2NC)
Power supply voltage	A0				100-240 V a.c. L.E.D (Condenser voltage drop)
	D0				12-24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Cap (LED color)	R				R (Red)
	G				G (Green)
	Y				Y (Yellow)
	A				A (Blue)
	W				W (White)

● Top/bottom separation code (ex : ART-2RR + AR 110AOR)

Model	Code		Content
ART-	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated selector switch
Actuator	2		2 Positions alternate operation
	2R		2 Positions momentary operation
	3		3 Positions alternate operation
Cap (LED color)	R		R (Red), G (Green), Y (Yellow), A (Blue), W (White)

Model	Code				Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated selector switch contact part
Operation function	1				Momentary
Contact composition	10				1a (1NO)
	20				1b (1NC)
	12				1a1b (1NO - 1NC)
	11				2a (2NO)
	22				2b (2NC)
Power supply voltage	A0				100 - 240 V a.c. L.E.D (Condenser voltage drop)
	D0				12 - 24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Cap (LED color)	R				R (Red), G (Green), Y (Yellow), A (Blue), W (White)

■ Stop switch

● SET Suffix code

Model	Code				Content
ARE-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stop switch
Actuator	3				Ø30 Standard type
	4				Ø40 Mushroom type
Operation function	B				Momentary
	P				Push lock full reset (* Except ARE-3)
	R				Push lock turn reset
	K				Push-lock key reset
Contact composition	10				1a (1NO)
	20				1b (1NC)
	12				1a1b (1NO-1NC)
	11				2a (2NO)
	22				2b (2NC)
Cap (LED color)			R		Red
			G		Green (Only for ARE-4B)

● Top/bottom separation code (ex : ARE-3BR + AR-110)

Model	Code				Content
ARE-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Stop switch
Actuator	3				Ø30 Standard type
	4				Ø40 Mushroom type
Contact composition	B				Momentary
	P				Push lock full reset (* Except ARE-3)
	R				Push lock turn reset
	K				Push-lock key reset
Cap (LED color)			R		Red
			G		Green (Only for ARE-4B)

Model	Code				Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>			Stop switch contact part
Actuator	1				Momentary
Contact composition	10				1a (1NO)
	20				1b (1NC)
	12				1a1b (1NO - 1NC)
	11				2a (2NO)
	22				2b (2NC)

■ Stop switch

● SET Suffix code

Model	Code				Content
ARE-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stop switch contact part
Actuator	4				Ø40 Mushroom type
Operation function	XR				Push lock turn reset
Contact composition	10				1a (1NO)
	20				1b (1NC)
	12				1a1b (1NO-1NC)
	11				2a (2NO)
	22				2b (2NC)
Power supply voltage	A0				100-240 V a.c. L.E.D (Condenser voltage drop)
	D0				12-24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Cap (LED color)	R				R(Red)
	G				G(Green) *Only ARE-3XR

● Top/bottom separation code (ex : ARE-4XRR + AR-110A0R)

Model	Code				Content
ARE-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stop switch contact part
Actuator	4				Ø40 Mushroom type
Contact composition	XR				Push lock turn reset
Cap (LED color)	R				R(Red), G(Green) *Only ARE-3XR

Model	Code				Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated stop switch contact part
Actuator	1				Momentary
Contact composition	10				1a (1NO)
	20				1b (1NC)
	12				1a1b (1NO - 1NC)
	11				2a (2NO)
	22				2b (2NC)
Power supply voltage	A0				100 - 240 V a.c. L.E.D (Condenser voltage drop)
	D0				12 - 24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Cap (LED color)	R				R (Red), G (Green)

■ **Pilot lamp**

● **SET Suffix code**

Model	Code			Content
ARP-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pilot lamp
Actuator type	F			Flush type
Power supply voltage	A0			100-240 V a.c. L.E.D (Condenser voltage drop)
	D0			12-24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Actuator color		R		R (Red)
		G		G (Green)
		Y		Y (Yellow)
		A		A (Blue)
		W		W (White)

● **Top/bottom separation code (ex : ARP-FR + AR-AOR)**

Model	Code			Content
ARP-	<input type="checkbox"/>	<input type="checkbox"/>		Pilot lamp
Actuator type	F			Flush type
Actuator color		R		R (Red), G (Green), Y (Yellow), A (Blue), W (White)

Model	Code			Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>		Pilot lamp contact part
Power supply voltage	A0			100 - 240 V a.c. L.E.D (Condenser voltage drop)
	D0			12 - 24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Cap (LED color)		R		R (Red), G (Green), Y (Yellow), A (Blue), W (White)

■ **Illuminated contact part (Contact + Illuminated unit) (ex : AR-110AOR)**

Model	Code				Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Illuminated contact part
Actuator		1			Momentary
		2			Alternate
Contact composition		10			1a (1NO)
		20			1b (1NC)
		12			1a1b (1NO - 1NC)
		11			2a (2NO)
		22			2b (2NC)
Power supply voltage		A0			100 - 240 V a.c. L.E.D (Condenser voltage drop)
		D0			12 - 24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Actuator color			R		R (Red), G (Green), Y (Yellow), A (Blue), W (White)

■ **Pilot lamp contact part (ex : AR-AOR)**

Model	Code			Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>		Pilot lamp contact part
Power supply voltage	A0			100 - 240 V a.c. L.E.D (Condenser voltage drop)
	D0			12 - 24 V d.c. / a.c. L.E.D (Resistance voltage drop)
Lamp color		R		R (Red), G (Green), Y (Yellow), A (Blue), W (White)

■ Key selector switch

● SET Suffix code

Model	Code			Content
ARK-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Key selector switch
Operation function	2			2 Positions alternate operation
	2R			2 Positions momentary operation
	3			3 Positions alternate operation
	3L			3 Positions left momentary operation
	3R			3 Positions right momentary operation
	3LR			3 Positions left / right momentary operation
Contact composition	10			1a (1NO)
	20			1b (1NC)
	12			1a1b (1NO-1NC)
	11			2a (2NO)
	22			2b (2NC)
Key release position	A			Left (Only 2 positions)
	B			Right (Only 2 positions)
	C			Middle (Only 3 positions)
	D			Left and Right (Only 2 positions)
	E			All directions (Only 3 positions)

● Top/bottom separation code (ex : ARK-2RA + AR-110)

Model	Code			Content
ARK-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Key selector switch
Operation function	2			2 Positions alternate operation
	2R			2 Positions momentary operation
	3			3 Positions alternate operation
	3L			3 Positions left momentary operation
	3R			3 Positions right momentary operation
	3LR			3 Positions left / right momentary operation
Key release position	A			Left (Only 2 positions)
	B			Right (Only 2 positions)
	C			Middle (Only 3 positions)
	D			Left and Right (Only 2 positions)
	E			All directions (Only 3 positions)

Model	Code			Content
AR-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Key selector switch contact part
Operation function	1			Momentary
Contact composition	10			1a (1NO)
	20			1b (1NC)
	12			1a1b (1NO - 1NC)
	11			2a (2NO)
	22			2b (2NC)