Ø22 HW Series Switches & Pilot Lights

Complete with finger-safe contact blocks Ensure safety and save wiring time

- Finger-safe terminal blocks
- Self-cleaning rolling action contacts.
- Degree of protection: IP65 (except dual pushbutton: IP40)
- Dual pushbutton switches available with two pushbuttons and a pilot light integrated into one space-saving unit.
- A wide range of operating voltages for worldwide application.
- Six different colors with a single LED (LSRD). Only the lens needs to be replaced to change the illumination color.
- IS03864-4 safety color compliant The bright and clears colors are suited for emergency situations



Application for dual pushbuttons:

Ideal for use as power switches and start/stop switches (available with I/ON and O/OFF markings on the buttons and a pilot light in the center).

Interlock type prevents two pushbuttons from being pressed at the same time, providing the best solution for up/down switches.

Specifications and Ratings

Contact Ratings

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

Contact Ratings by Utilization Category

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

Operating Volta	Operating Voltage				50V	110V	220V	440V]
	AC	AC-12 Control of resistive loads and solid state loads	10A	—	10A	10A	6A	2A]
Operating	50/60 Hz	AC-15 Control of electromagnetic loads (> 72 VA)	10A	—	7A	5A	ЗA	1A	HW
Current	DC	DC-12 Control of resistive loads and solid state loads	10A	5A	_	2.2A	1.1A	_	1
	DC	DC-13 Control of electromagnets	5A	2A	_	1.1A	0.6A	_	- TW
			•		^				YW

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

Operating Voltage			24V	48V	50V	110V	220V	440V
	AC	AC-12 Control of resistive loads and solid state loads	5A	—	5A	5A	ЗA	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	—	1.1A	0.55A	—
		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).

Contact materials: Silver contacts

. Minimum applicable load: 3V AC/DC, 5 mA (applicable range may vary with operating conditions and load types)

Control Boxes

Emergency Stop Switches

APEM

Power Supplies

Controllers

Operator Interfaces

Sensors

Flush Silhouette ø16



Pilot Lights

HW TW

V

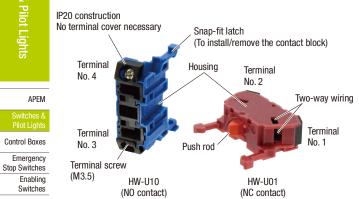
ø22 HW Series Switches & Pilot Lights

HW-U Contact Block

Pilot Lights

Safety Products Explosion Proof

ø16



Part No.	HW-U10	HW-U01	HW-U10R	HW-U01R			
Contact		7					
oontact	1N0	1NC	EM (NO) (early make)	LB (NC) (late break)			
Contact No.	3-4	1-2	3-4	1-2			
Housing	Blue	Purple red	Blue	Purple red			
Push Rod	Green	Red	Black	White			
Weight	Approx. 11g						

• Up to 2 layers (4 blocks) can be attached.

· Gold contacts available (gold-plated silver)

LED Illuminated Part Specifications

Terminal Blocks	Unit					LED lamp	
Relays & Sockets	UTIIL	Rated Voltage		Operating Voltage		Lamp Base	Part No.
Circuit		6V AC/DC	/ AC/DC				LSRD-6
Protectors		12V AC/DC		12V AC/DC			LSRD-1
Power Supplies	Illuminated pushbutton Illuminated selector switch Pilot light Dual pushbutton (with pilot light)	24V AC/DC		24V AC/DC			LSRD-2
		100/110V AC		100/110V AC	±10%	BA9S/13	
LED Illumination		115/120V AC	50/60 Hz	115/120V AC (*1)			
Controllers		200/220V AC		200/220V AC			
Operator		230/240V AC		230/240V AC (*1)			LSRD-6
Interfaces		380V AC]	380V AC			LOND-0
Sensors		400/440V AC]	400/440V AC			
		480V AC]	480V AC			
AUTO-ID		110V DC		90 to 140V DC		<u> </u>	

• See **B-182**. for details on LED lamp ratings.

• For the LED lamp used in jumbo dome pilot lights and dual pushbutton switches (with pilot light), see B-182.

• Yellow (Y) cannot be used with dual pushbuttons. Flush Silhouette

Illuminated Part Type and Shape

ø22		51	Illuminated Unit	Pilot Light				
ø30	Power Unit	Full voltage adapter	Transformer		DC-DC converter	Full voltage adapter	Transformer	DC-DC converter
Miniature	Rated Voltage	6, 12, 24V AC/DC	100 to 240V AC	380V AC min.	110V DC	6, 12, 24V AC/DC	100 to 480V AC	110V DC
Pilot Lights	Polarity	None	None	None None		None	None	X1 (+) X2 (-)
HW TW YW	Shape/Terminal	X1	X1 X2	Û	×1 X2	X1 X2	ſ	2000 X1 X2