

ø22 YW SERIES CONTROL UNITS

Space-saving, thin style contact blocks Separable operator part makes handling easy

- Small & light-weight
- Finger-safe screw terminals of IP20 (IEC 60529) enhance safety.
- Separate contact block makes installing and removing easy.
- Pilot lights feature a large lens to ensure a wide viewing angle for increased safety.
- Non-glare matte surfaces on the button, lens, and bezel reduce reflection of ambient light.
- UL, c-UL listed, EN compliant, and CCC approved.



Contact Ratings (Contact Block)

Rated Insulation Voltage		600V			
Rated Thermal Current		10A			
Operating Voltage		24V	120V	240V	380V
AC 50/60 Hz	Resistive Load (AC-12)	10A	10A	6A	2A
	Inductive Load (AC-15)	10A	6A	3A	1.9A
DC	Resistive Load (DC-12)	8A	2.2A	1.1A	–
	Inductive Load (DC-13)	4A	1.1A	0.55A	–

LED Lamp Ratings

Type No.	Rated Voltage	Rated Current	Color Code
LSED-6*	6V AC/DC	10 mA (A, R, Y) 7 mA (G, PW, S)	A (amber) G (green) PW (pure white) R (red) S (blue) Y (yellow)
LSED-1*	12V AC/DC	13 mA (A, R, Y) 11 mA (G, PW, S)	
LSED-2*	24V AC/DC	15 mA (A, R, Y) 14 mA (G, PW, S)	
LSED-H*	110V AC/DC	5.5 mA	
LSED-M3*	230/240V AC/DC	2.7 mA	

Note: Specify a color code in place of * in the Type No.
Yellow LED lamps are used for white illumination of pilot lights and illuminated pushbuttons.

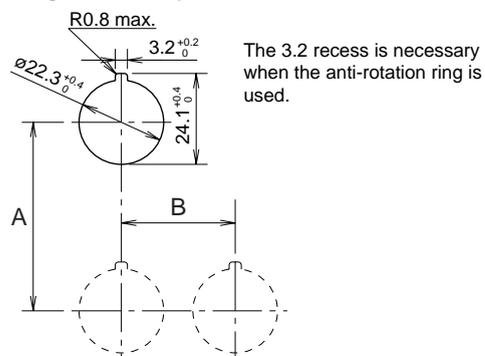
Incandescent Lamp Ratings

Type No.	Rated Voltage	Ratings
LS-T6	6V AC/DC	6.3V 1W
LS-T8	12V AC/DC	18V 1W
LS-T3	24V AC/DC	30V 1W

Specifications

Operating Conditions	Operating temperature:	-20 to +55°C (no freezing)
	Operating humidity:	45 to 85% RH (no condensation)
	Storage temperature:	-45 to +80°C
	Storage humidity:	95% RH maximum
Degree of Protection	From panel front:	IP65 (IEC 60529)
	Terminal:	IP20 (IEC 60529)
Insulation Resistance	100 MΩ	
Dielectric Strength	Contact block:	3500V, 1 minute
	Pilot light:	2100V, 1 minute
Vibration Resistance	Operating extremes:	5 to 55 Hz, amplitude 0.5 mm
	Damage limits:	30 Hz, amplitude 1.5 mm
Shock Resistance	Operating extremes:	100 m/s ²
	Damage limits:	1000 m/s ²
Mechanical Life	<Pushbutton and illuminated pushbutton>	
	Momentary:	5,000,000 operations minimum
	Maintained:	250,000 operations minimum
Electrical Life	<Selector switch>	
	Pushbutton:	100,000 operations minimum
	Selector switch:	100,000 operations minimum

Mounting Hole Layout

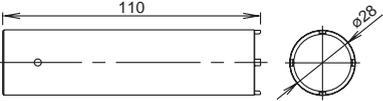
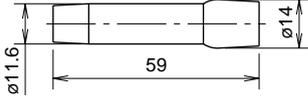
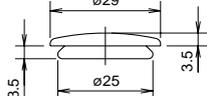
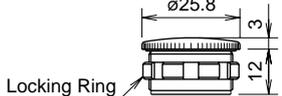
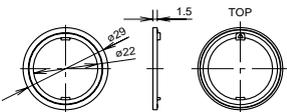
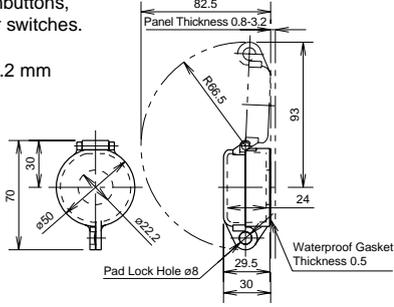
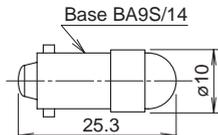
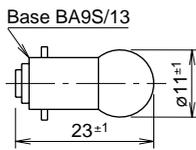


Unit	A (mm)	B (mm)
Pushbutton Selector Switch	50 min.	30 min.
Mushroom Pushbutton	50 min.	40 min.
Pilot Light	30 min.*	30 min.

* Keep a minimum spacing of 50 mm when using a lamp of over 1W.

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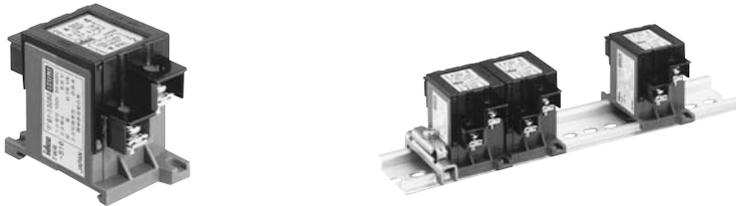
Accessories

Name & Shape	Type No.	Description & Dimensions (mm)	Package Quantity	
	MW9Z-T1	Metallic tool used to tighten the plastic locking ring when installing the YW series control unit on a panel. 	1	
	OR-55	Made of rubber. Used for replacing lamps easily. 	1	
	OB-31PN05	Used for plugging unused mounting holes in the panel. Color: Black 	5	
	LW9Z-BM	Used for plugging unused mounting holes in the panel. Weight: Approx. 18g 	1	
	HW9Z-RLPN10	Prevents rotation of switches in panel. Mainly used with selector switches when no nameplate is used. With waterproof gasket (IP65). Made of plastic (black). Applicable panel thickness: 1.2 to 4.5 mm 	10	
	HW9Z-KL1	Plastic hinged cover to protect pushbuttons, illuminated pushbuttons, or selector switches. Degree of protection: IP65. Applicable panel thickness: 0.8 to 3.2 mm 	1	
LED Lamp 	LSED-6* LSED-1* LSED-2* LSED-H* LSED-M3*	6V AC/DC 12V AC/DC 24V AC/DC 110V AC/DC 230/240V AC/DC	Specify a color code in place of * in the Type No. A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow) Applicable units: • LED illuminated pilot lights • LED illuminated pushbuttons For the rated current, see page 4. Note: Yellow LED lamps are used for white illumination of pilot lights and illuminated pushbuttons.	1
Incandescent Lamp 	LS-T6P LS-T8P LS-T3P	6.3V, 1W 18V, 1W 30V, 1W	One pack contains 100 incandescent lamps.	100
	YW-E10P YW-E01P	Contact: 1NO Contact: 1NC		10

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Name	Style	Type No.	Color Code	Dimensions (mm)	Package Quantity
Button (for pushbuttons)	Extended	YW9Z-B12*PN10	B (black) G (green) R (red) S (blue) W (white) Y (yellow)		10
	Mushroom ø40mm	YW9Z-B14*PN10			
Lens (for illuminated pushbuttons)	Extended	YW9Z-L12*PN10	A (amber) C (clear) G (green) R (red) S (blue) Y (yellow)		10
	Mushroom ø40mm	YW9Z-L14*PN10			
Marking Plate (for illuminated pushbuttons)	—	YW9Z-P12PN10	—		10
Lens (for pilot lights)	Dome	YW9Z-PL12*PN10	A (amber) C (clear) G (green) R (red) S (blue) W (white) Y (yellow)		10

Separate DIN Rail Mounting Type Transformer



• Type No.

Primary Voltage (50/60 Hz)	Type No.	Applicable Lamp Rating
110V AC	TWR-516	One full voltage type illuminated unit containing LED lamp LSED-6 (6V AC/DC) or incandescent lamp LS-T6 (6.3V)
115V AC	TWR-5116	
120V AC	TWR-5126	
220V AC	TWR-526	
230V AC	TWR-5236	
240V AC	TWR-5246	
380V AC	TWR-5386	
440V AC	TWR-546	
480V AC	TWR-5486	

Note: A finger-safe terminal cover is supplied with the transformer.

• Dimensions (mm)

