

# ø25 TWS Series Switches & Pilot Lights

General-purpose switches & pilot lights for various applications  
Heavy-duty type for high-level protection against harsh environment

- No terminal cover required (except for full voltage pilot lights)
- Easy wiring for crimping terminal.
- Six different colors with a single LED (LSRD)  
Previously, 5 different color LEDs were required but with the new illuminated unit, only a single LED is used.
- UL, CSA, TÜV, CCC compliant (except for some models).



Applicable Standards	Mark	File No. or Organization
UL508		UL Listing File No. E68961
CSA C22.2 No.14		CSA File No. LR21451
EN60947-5-1		TÜV Rheinland
		EU Low Voltage Directive and RoHS 2 Directive (except for DC-DC converter unit)
GB14048.5		Contact IDEC for details.

- DC-DC converter types are not approved by standards.
- See website for details on approvals and standards.

## Specifications and Ratings

### Contact Ratings

Pushbuttons Illuminated Pushbuttons Selector Switches Illuminated Selector Switches	Rated insulation voltage	600V
	Rated continuous current	10A
	Contact ratings by utilization category IEC 60947-5-1	AC-15 (A600) DC-13

For the units listed below, the rated current (load switching current) is reduced to a half of the rated operational current of the contact block. The rated insulation voltage (600V) and the rated thermal current (10A) remain unchanged.  
Selector switches and illuminated selector switches with contact code 2R, 3S, 4S, or 4R.

### Contact Ratings by Utilization Category

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

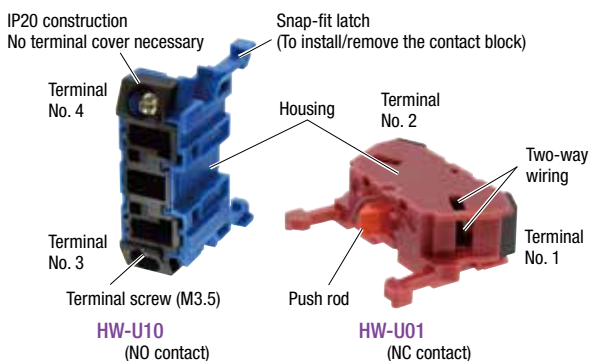
Operating Voltage		24V	48V	50V	110V	220V	440V
Operating Current	AC 50/60 Hz	AC-12 Control of resistive loads and solid state loads	10A	—	10A	10A	2A
		AC-15 Control of electromagnetic loads (> 72 VA)	10A	—	7A	5A	1A
	DC	DC-12 Control of resistive loads and solid state loads	10A	5A	—	2.2A	—
		DC-13 Control of electromagnets	5A	2A	—	1.1A	—

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

Operating Voltage		24V	48V	50V	110V	220V	440V
Operating Current	AC 50/60 Hz	AC-12 Control of resistive loads and solid state loads	5A	—	5A	3A	1A
		AC-15 Control of electromagnetic loads (> 72 VA)	5A	—	3.5A	2.5A	0.5A
	DC	DC-12 Control of resistive loads and solid state loads	5A	2.5A	—	1.1A	—
		DC-13 Control of electromagnets	2.5A	1A	—	0.55A	—

- 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)

### HW-U Contact Block



Part No.	HW-U10	HW-U01	HW-U10R	HW-U01R
Contact				
Contact No.	1NO	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. AYS: 2 blocks (1 layer) maximum.
- Gold contacts available (gold-plated silver)