Display Lights

IDEC

TW Series — 22mm NEMA Style Pushbuttons



TW NEMA Style Switches with snap-on contacts

Key features include:

- Corrosion resistant octagonal chrome plated locking bezel
- Snap-on 10A contact blocks
- Incandescent or LED illumination
- Slow make, double break, self cleaning contacts
- Modular construction for maximum flexibility
- NEMA 4X and IP65 watertight/oiltight panel
- Available assembled or as sub-components
- Large M3.5 screw terminals with captive sems plate







IDEC has your 22mm switching needs covered.

Button styles include flush, extended, mushroom, or square and all bodies are crafted from fracture-resistant nylon.

All illuminated units feature two lense styles, one that maximizes light dispersion, the other accommodates direct lens engraving.

Self cleaning contact mechanisms allow for a wide current rating, 5mA to 10A, which reduces the need for various contact materials.

When looking for a 22mm switch that is durable, easy to use, and versatile, then IDEC's TW series is your solution.





IDEC







File No. E70646 File No. LR21451

Certificate No. 2030010305027380



Contact Operation

Recommended Terminal Torque

External Short-Circuit Protection



Registration No: J9551802 (E-Stops) Registration No: J9551803 (All other switches) **CSA:** pushbuttons and selector switches: A600 pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380,

EN60947-1, EN60947-5-1, VDE0660-200, UL508, CSA C22-2 No.14

UL: pushbuttons and selector switches: A600 pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V)

TÜV: pushbuttons and selector switches: A600=P600 (NO, NC)/Q600 (NO-EM, NC-LB) pilot lights and illuminated pushbuttons, direct supply pilot lights and illuminated pushbuttons with integral transformer (100/110, 115, 120, 200/220, 230, 240, 380, 400/440, 480V)

Registration No: J9551804 (Pilot Lights)				
Operating Temperature	Operation: -25 to +50°C (without freezing), Storage: -40 to +80°C (without freezing)			
Vibration Resistance	5 to 55Hz, 100m/sec ² (10g) conforming to IEC6068-2-6			
Shock Resistance	1000m/sec ² (100g) conforming to IEC6068-2-7			
Electric Shock Protection	Class 0 conforming to IEC60536			
Degree of Protection (conforming to IEC60529) (conforming to NEMA ICS6-110)	IP65 from front of the panel; (IP54 for key switches) IP20 (Type HW-F contact block) NEMA 1, 2, 3, 3R, 3S, 4, 4X, 5, 12, 13 (NEMA 1, 2, 3R, 5, 12, 13 for key switches)			
Mechanical Life	Momentary pushbuttons: 5,000,000 (900 operations per hour) All other switches: 500,000			
Pollution Degree (conforming to IEC60947-1)	3 for switches not using a transformer, 2 for switches using a transformer			
Rated Operational Characteristics	AC-15: A600 or Ue = 250V, Ie = 3A (NO, NC, NO-EM, NC-LB) DC-13: P600 or Ue = 125V, Ie = 1.1A (NO, NC) DC-13: Q600 or Ue = 125V, Ie = 0.9A (NO-EM, NC-LB)			
Rated Insulation Voltage	600V			
Rated Switching Over-Voltage	Less than 4kV, conforming to IEC60947-1			
Rated Impulse Withstanding Voltage	4kV for contact circuit, 2.5kV for lamp circuit			
Rated Thermal Current	10 Amp			
Minimum Switching Capacity	5 mA at 3V AC/DC			

Slow break NC or slow make NO, self-cleaning

10A 250V fuse conforming to IEC60269-1

Applicable Wire Size	Minimum 1 x 22 AWG, max. 2 x 14 AWG or 1 x 12 AWG
Contact Resistance	Initial contact resistance of $50m\Omega$ or less
Contact Gap	4mm (NO and NC), 2mm (NO-EM and NC-LB)
Electrical Reliability	MTBF < 1 fault for 10 million operation cycles (3V DC, 5mA)
Lamp Ratings	Incandescent: 1 W LEDs: 6V: 17mA max, 12/24V: 11mA max, 120/240V: 10mA max
Horsepower Rating	1/4 HP @ 120V (single-phase, non-reversing motor); 1 HP @ 240V (3 phase, non-reversing motor)
Maximum Inrush Current	40 A (40 ms)
Contact Material	Silver

0.8 N m (7.1 in lb.)

Pushbuttons Illuminated Pushbuttons Rated Insulation Voltage G00V	
---	--

	Contact Ratings by Utilization Category								
Characteristics	Operational Voltage			24V	48V	50V	110V	220V	440V
	Operational Current	AC50/60Hz	AC-12 Control of resistive loads and solid state loads	10A	_	10A	10A	6A	2A
			AC-15 Control of electromagnetic loads (> 72VA)	10A	_	7A	5A	3A	1A
		DC	DC-12 Control of resistive loads and solid state loads	8A	5A	_	2.2A	1.1A	_
			DC-13 Control of electromagnets	5A	2A	_	1.1A	0.6A	_