

## DT-01

### Flush Mount Piezoelectric Button



Discovery's DT-01 is a part of a powerful line of high quality piezoelectric switches. Designed in mind of industrial and high-risk environmental requirements, the DT-01 will adapt well in mines, oil rigs and refineries, military installations and more. The switch can be used in many hi-demanding applications, from heavy machinery and mechanical operation panels, to access control systems or direct door control. The DT-01 with no moving parts is extremely reliable, resilient and robust yet is encased in an elegant design within a modern case suitable for use by architects and designers.

#### GENERAL DESCRIPTION

Discovery's DT-01 is a heavy duty, non-sparking, non-magnetic, corrosion resistant, illuminated, anti-vandal, timed analog switch, designed for both indoor and outdoor use.

It features solid state Piezoelectric Switch Technology generating a dry contact N.O. and N.C relay pulse simply by the touch of a finger, with no physical movement or moving parts.

Select brilliant red, vibrant green or no illumination as a status indicator with the jumper selectable illumination status feature.

#### MAIN FEATURES

- Advanced soft touch piezoelectric switch
- New weatherproof design – water and dust proof, grease, oil and other chemical solvent repellent
- Circuit assembly encapsulation
- Vandal resistant
- Stainless steel mounting plate and tactile button with no moving parts
- Mounting Method Single Gang: Mounts directly to a US gang switchbox
- Backed by Discovery's International Guarantee and service with ISO9001 (Certified TUV Rhineland) level business and manufacturing operations

#### PROFESSIONAL GRADE FEATURES

- Non-sparking, non-magnetic, corrosion resistant
- Light ring status indicator and accidental activation hindrance
- Adjustable Output and LED indication time of 1 to 60 seconds
- Output and indication Toggle option
- Jumper Selectable Illumination Status: Red, Green, or No Illumination
- One Relay with two 2-Ampere outputs for separate application wiring: N.O. and N.C.

## Specifications

<b>ELECTRICAL SPECIFICATIONS</b>	
Operating Voltage Range	10–24 VDC
Outputs	One dry contact relay with two separate outputs One Normally Open, One Normally Closed 2 A
Input Current, Max	Standby 15 mA @ 24 VDC Maximum 140 mA @ 24 VDC
Button Switch Lifespan	Over 1 Billion Cycles
Relay Expectancy	100,000 @ 2 A 30 VDC 500,000 @ 1 A 30 VDC
<b>ENVIRONMENTAL SPECIFICATIONS</b>	
Operating Environment	Suitable for indoor and outdoor use (meets IP-65)
Operating Temperature Range	-35°C to 66°C (-31°F to 151°F)
Outdoor Humidity Range	0 to 85% (non-condensing)
<b>PHYSICAL SPECIFICATIONS</b>	
Material	Stainless steel faceplate and button cup
Dimensions (H x W x D)	11.4 x 7 x 3.2 cm (4.5 x 2.75 x 1.25 in.)
Weight	238 g (8.4 oz.)
<b>OPERATIONAL SPECIFICATIONS</b>	
Output Mode	Selectable Toggle or timed Pulse
Pulse and Led indication time	Selectable 1–60 seconds
Led indicator	Off, Red, and Green
<b>SYSTEM COMPONENTS</b>	
	The DT-01 is compatible with all switch operated electrical devices. The unit also works with all of Discovery's Access control units as well as all standard access control systems.
<b>PRODUCT WARRANTY</b>	
	5-Year Limited Product Warranty