Solenoid Release Units

BIA 974016

Description

The solenoid release unit is used for electrical isolation of machinery to enable safe access. It consists of a rotary power switch (RPS) and a solenoid. The trapped key can be removed once an external signal is given to its internal solenoid locking mechanism. An indicator light on the SRU indicates when trapped key can be removed; that is, when power is applied to the solenoid. The solenoid signal only needs to be present when key removal is necessary. The solenoid is rated for 100% duty cycle. Power to the solenoid can be removed after the trapped key is removed.

Removing the trapped key causes the isolating power switch to change state; the normally open contacts open and the normally closed contacts (if applicable) will close.

The trapped key can then be used in the next sequence of the operation.

Features

- Direct drive operation—positively opens contacts
- Integral solenoid monitoring
- Key trapped until release signal is applied
- IP 65 enclosure or panel mounted versions
- LED or NEON “key free” indication
- 316L stainless steel construction
- 24V DC, 110V AC/DC or 230V AC solenoid options
- Weatherproof stainless steel dust cap as standard
- UL and CSA approval on switches
- Single or multiple key units available (contact factory)
- Replaceable code barrel assembly

Specifications

Standards	EN292-1&2, EN1954-1, IEC/EN60204-1, EN1088, IEC/EN60947-5-1, ISO13849-1, ISO12100-1&2, ISO14119, GS-ET-19, AS4024.1
Category	Cat. 1 per EN 954-1 (ISO 13849-1) Suitable for Cat. 2, 3, and 4 systems
Approvals	BG, cULus and CE marked for all applicable directives
Solenoid Voltage	24V DC, 110V AC, 230V AC, 110V DC
Solenoid Power DC Types AC Types	 6.5W continuous 6VA continuous
Electrical Characteristics	See rotary power switches
Mounting	Any position
Max Shear Force to Key	15.1kN (3398lbs)
Max Torque to Key	14Nm (124lb•in)
Material Trapped Key Components Face Plate Optional Box	 316L Stainless Steel 316L Stainless Steel ABS Plastic
Cable	0.75sq. mm2 (18AWG) 2-wire PVC jacket QD
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	95% RH
Environmental With Optional Plastic Enclosure	 IP65 (NEMA 13)
Electrical Life	>100,000
Mechanical Life	100,000

The Prosafe Advantage

Stainless steel construction.

Product Selection

Solenoid Voltage	Contacts	Current	Catalogue Number
24V DC	2 N.O. & 2 N.C.	20A	**440T-MSRUE11❶**
	4 N.O.		**440T-MSRUE10❶**
		32A	**440T-MSRUE12❶**
110V AC	2 N.O. & 2 N.C.	20A	**440T-MSRUE22❶**
	4 N.O.		**440T-MSRUE20❶**
		32A	**440T-MSRUE23❶**
230V AC	2 N.O. & 2 N.C.	20A	**440T-MSRUE33❶**
	4 N.O.		**440T-MSRUE30❶**
		32A	**440T-MSRUE34❶**
110V DC	2 N.O. & 2 N.C.	20A	**440T-MSRUE44❶**
	4 N.O.		**440T-MSRUE40❶**
	3 N.O. & 3 N.C.		**440T-MSRUE46❶**

❶ Substitute the desired primary code for this symbol (key not included). See page 5-6 for code selection.

Accessories

Description	Additional Information	Catalogue Number
Replacement Key	See page 5-33	**440T-AKEYE10⊗**
Replacement Code Barrel		**440T-ASCBE14❶**
Replacement Dust Cap		**440T-ASFC10⊗**
Optional IP65 Plastic Enclosure	For use with 20A units	**440T-AIPB10**
	For use with 32A units	**440T-AIPB22**

❶ Substitute the desired primary code for this symbol (key not included). See page 5-6 for code selection.
⊗ Substitute the desired code for this symbol. See page 5-6 for code selection.

Approximate Dimensions—mm (inches) Typical Wiring Diagram

Dimensions are not intended to be used for installation purposes.