

## Prosafe Trapped Key Interlock Switches

### Stopped Motion Units



#### Description

The Stopped Motion Unit (SMU) is used in applications that require the detection of stopped motion of mechanical parts of a machine. The SMU uses inductive proximity sensors to detect motion and the CU2 control unit to monitor the sensors.

The CU2 requires a PNP and an NPN output type proximity sensors. When the proximity sensors stop detecting movement, the CU2 activates its output, powering an internal solenoid. With the solenoid energized, one or two trapped keys can be removed from the SMU.

The removable trapped keys (one or two) can be used to continue the next sequence in allowing access to the hazardous area.

See the CU2 control unit for details on setting the delay time.

Additional proximity sensors can be found in the *Sensors* catalogue.

#### Features

- Stopped motion detection
- NPN and PNP proximity sensors
- Timed-delay output up to 40 minutes
- Category 1 Stop
- Replaceable code barrel assembly
- Optional IP65 enclosure

#### 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. 3 per EN 954-1 (ISO 13849-1)
Approvals	BG and CE marked for all applicable directives
Operating Temperature	0°C to +40°C (32°F to +104°F)
Humidity	95% RH
Mechanical Operations	100,000
Maximum Shear Force to Key	15.1kN (3398lbs)
Maximum Torque to Key	14Nm (124lb•in)
Material	
Trapped Key Components	316L Stainless Steel
Face Plate	316L Stainless Steel
Optional Box	ABS Plastic
Inductive Sensors	Stainless Steel Barrel, Plastic Face
Assembly Fixing	Tamper resistant screws
Weight	2.0kg (4.4lbs)
Inputs	24V DC, 110V AC and 230V AC
Time Range	0.1 second to 40 minutes
Zero Speed Sensors	2x inductive sensors

#### The Prosafe Advantage



Stainless steel construction.

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## Product Selection (sensors not included)

Type	Solenoid Voltage	Contact Set 1	Contact Set 2	Catalogue Number
Single Key Out Panel Mounted	24V DC	3 N.O. 40A	1 N.O. 20A	440T-MSMSE10❶
		2 N.O. 20A	1 N.C. 20A	440T-MSMSE11❶
	110V AC	3 N.O. 40A	1 N.O. 20A	440T-MSMSE20❶
		2 N.O. 20A	1 N.C. 20A	440T-MSMSE22❶
	230V AC	3 N.O. 40A	1 N.O. 20A	440T-MSMSE30❶
		2 N.O. 20A	1 N.C. 20A	440T-MSMSE33❶
Dual Key Out Panel Mounted	24V DC	3 N.O. 40A	1 N.O. 20A	440T-MDMSE10❶❶
		2 N.O. 20A	1 N.C. 20A	440T-MDMSE11❶❶
	110V AC	3 N.O. 40A	1 N.O. 20A	440T-MDMSE20❶❶
		2 N.O. 20A	1 N.C. 20A	440T-MDMSE22❶❶
	230V AC	3 N.O. 40A	1 N.O. 20A	440T-MDMSE30❶❶
		2 N.O. 20A	1 N.C. 20A	440T-MDMSE33❶❶

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

## Accessories

Description	Size	Type	Page Number	Catalogue Number
Replacement Key	—	—	5-33	440T-AKEYE10⊗
Replacement Code Barrel				440T-ASCBE14❶
Replacement Dust Cap				440T-ASFCA10⊗
Replacement Fuse				250V 500mA
Optional IP65 Plastic Enclosure	—	—	For use with 20A units	440T-AIPB20
			For use with 40A units	440T-AIPB23
Inductive Proximity Sensors	12mm	NPN	4-67	872C-D3NN12-E2
		PNP		872C-D3NP12-E2
	18mm	NPN		872C-D5NN18-E2
		PNP		872C-D5NP18-E2
	30mm	NPN		872C-D10NN30-E2
		PNP		872C-D10NP30-E2

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

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## Approximate Dimensions—mm (inches)

