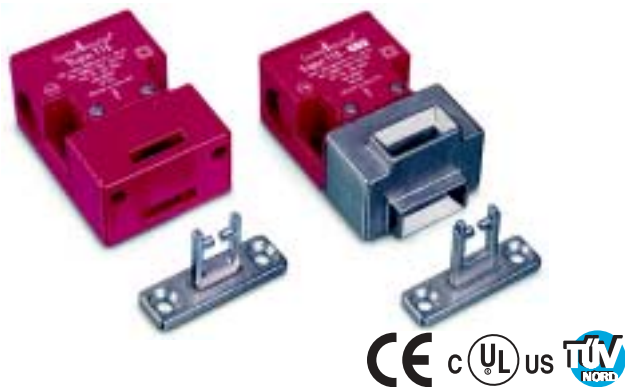


Interlock Switches

Tongue Switches

Trojan T15



Description

The Trojan T15 is a compact universal tongue actuated safety interlock switch designed to fit at the opening edge of sliding, hinged or lift-off guards. With its dual entry slots and rotatable head, movable only by releasing the cover screws, the Trojan T15 can offer four different options for actuator entry.

The Trojan T15 features a compact housing, only 75 x 52 x 32mm (2.95 x 2.04 x 1.25in) and includes direct opening action contacts and a tamper-resistant mechanism. The Trojan T15 has 2 N.C. safety contacts or 1 N.C. safety contact and 1 N.O. auxiliary contact. The unit is sealed to IP67 and has three M20 conduit entries.

Operation of the switch is achieved by the insertion of the specially profiled stainless steel actuator which should be permanently fixed to the leading edge of the guard door. The standard T15 incorporates actuator retention force of 30N. An optional catch mechanism helps keep doors shut on vibrating machinery.

Features

- Compact size, 75 x 52 x 32mm (2.95 x 2.05 x 1.26in) case
- 30N actuator retention force
- Strong and versatile, can be used in most applications
- Contacts: 2 N.C. safety or 1 N.C. safety & 1 N.O. auxiliary
- GD2 style available for demanding applications

Specifications

Standards	EN954-1, ISO13849-1, IEC/EN60204-1, NFPA79, EN1088, ISO14119, IEC/EN60947-5-1, ANSI B11.19, AS4024.1
Category	Cat. 1 Device per EN954-1 Dual channel interlocks suitable for Cat. 3 or 4 systems
Approvals	CE marked for all applicable directives, cULus and TUV Nord
Safety Contacts	2 N.C. or 1 N.C. direct opening action
Designation/Utilization Cat.	A600/AC-15 (Ue) (Ie) N600/DC-13 (Ue) (Ie)
Max. Switched Current/ Voltage/Load	600V 500V 240V 120V 1.2A 1.4A 3A 6A 600V 500V 250V 125V 0.4A 0.55A 1.1A 2.2A
Thermal Current (Ith)	500V/500VA
Min Current	10A
Safety Contact Gap	5V 5mA DC
Rtd. Insulation Voltage	>2 x 2mm (0.078in)
Rtd. Impulse Withstand Volt.	(Ui) 500V
Auxiliary Contacts	(Uimp) 2500V
Pollution Degree ①	1 N.O.
Actuator Travel for Positive Opening	3
Min Operating Radius	6mm (0.236in)
Break Contact Min Force	175mm (6.89in) 60mm (2.36in) with flexible actuator
Max Actuation Speed	30N (6.7lb)
Max Actuation Frequency	160mm (6.29) per sec
Case Material	2 Cycle per sec
Actuator Material	UL approved glass filled polybutylene terephthalate
Protection	Stainless Steel
Conduit Entry	IP67
Operating Temperature	3 x M20 or quick disconnect style
Fixing	-20°C to +80°C (-4°F to +176°F)
Mounting	2 x M5
Mechanical Life	Any position
Electrical Life	1,000,000 operations
Weight	1,000,000 operations
Colour	120g (0.265lbs)
	Red

① Conductive pollution occurs, or dry, non conductive pollution occur which becomes conductive due to condensation.

Applications



Note: Lift-off guards require good alignment when using tongue actuated interlock switches.
IMPORTANT: It must not be possible to lift the guard without actuating the interlock. An interlock on either side may be required.

Product Selection

Model Type	Contacts		Actuator	M20 Conduit		Quick Disconnect
	Safety	Aux.		Standard	1/2in NPT Adaptor	End Entry
Standard	2 N.C.	—	Standard	440K-T11303	440K-T11267	440K-T11307
			Fully-Flex	440K-T11395	440K-T11273	440K-T11384
			—	440K-T11269	—	440K-T11385
	1 N.C.	1 N.O.	Standard	440K-T11305	440K-T11268	440K-T11386
			Fully-Flex	440K-T11396	440K-T11276	440K-T11387
			—	440K-T11270	—	440K-T11388
GD2 Front Entry	2 N.C.	—	Standard	440K-T11463	440K-T11288	440K-T11389
			Fully-Flex	440K-T11397	440K-T11287	440K-T11390
			—	440K-T11280	—	440K-T11391
	1 N.C.	1 N.O.	Standard	440K-T11398	440K-T11284	440K-T11392
			Fully-Flex	440K-T11399	440K-T11283	440K-T11393
			—	440K-T11279	—	440K-T11394
		Recommended mating cable, 2m (6.5ft). See page 15-10 for details and additional lengths.				889D-F4AC-2

Accessories

Description		For Dimensions See Page	Catalogue Number
	Standard Actuator (Standard model only)	14-5	440K-A11238
	GD2 Standard Actuator (GD2 model only)	14-4	440G-A27011
	Flat Actuator	14-5	440K-A11112

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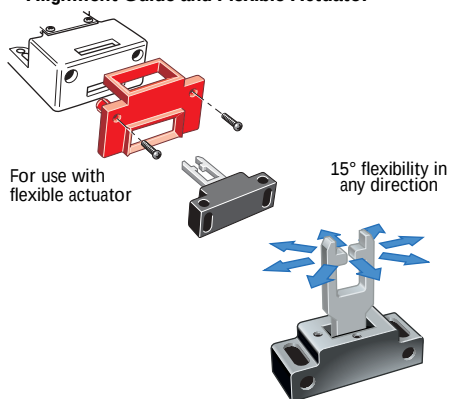
Trojan T15

Accessories (continued)

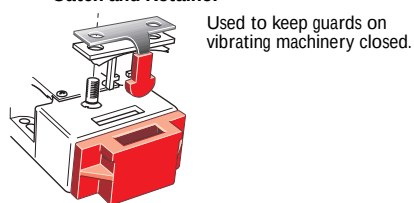
Description	For Dimensions refer to page	Catalogue Number
 Alignment Guide with Semi-Flexible Actuator (Discard the Alignment Guide for GD2)	14-5	440K-A11144
 Alignment Guide with Fully-Flexible Actuator (Discard the Alignment Guide for GD2)	14-6	440K-A27010
 Sliding Bolt Actuator	14-4	440G-A27163
 Catch and Retainer Kit (Standard Model Only)	14-4	440K-A11094

Optional Items

Alignment Guide and Flexible Actuator



Catch and Retainer

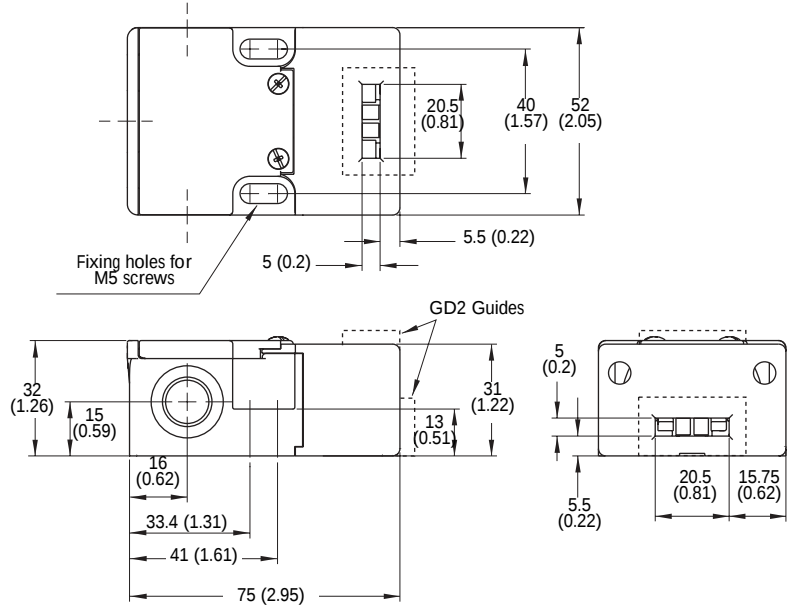


Plug In Connection

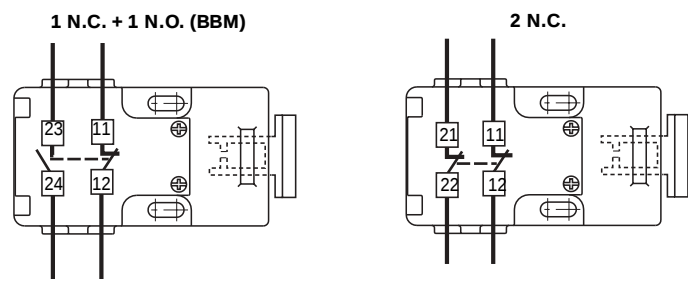


Approximate Dimensions—mm [inches]

Dimensions are not intended to be used for installation purposes.



Typical Wiring Diagrams (shown with guard closed, actuator inserted)



Connector Pinout		1 N.C. + 1 N.O.		2 N.C.	
		Terminal	Contact	Terminal	Contact
	1	11	N.C.	11	N.C.
	3	12		12	
	2	23	N.O.	21	N.C.
	4	24		22	

Contact Action

□ Contact Open ■ Contact Closed

Actuator withdrawal distance from full insertion

