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440P-15 Mm Plastic

Description

The Imp offers safety switch performance of bigger units in the most compact case available. Designed with two mounting hole options and a choice of actuator positions, the Imp will fit in most confined spaces.

Features

- Positive operation, forced disconnection of contacts
- Contacts 1 N.C. + 1 N.O.





Imp 1

Imp 2

Specifications

Safety Ratings							
Standards		EN 954-1, ISO 13849-1, IEC/EN 60204-1, NFPA 79, EN 1088, ISO 14119, IEC/ EN 60947-5-1, ANSI B11.19, AS 4024.1					
Safety Classification		Cat. 1 Device per EN954-1 Dual channel limit switch suitable for Cat. 3 or 4 systems					
Functional Safety Data * Note: For up-to-date information, visit http://www.ab.com/Safety/		B10d: > 2 x 106 operations at min. load PFH _D : > 3 x10-7 MTTFd: > 385 years Dual channel limit switch may be suitable for performance levels Ple or Pld (according to ISO 13849-1:2006) and for use in SIL2 or SIL3 systems (according to IEC 62061) depending on application characteristics					
Certifications		CE Marked for all applicable directives and CSA NRTL/C					
Outputs							
Safety Contacts ‡		1 N.C. positive break					
Auxiliary Contacts		1 N.O.					
Thermal CurrentI _{Ith}		10 A (lth)					
Rated Insulation Voltage		(Ui) 500V					
Switching Current @ Voltage, Min.		25 mA @ 5V DC					
Utilization Cate	egory						
AC-15	(Ue)	500V	250V	100V			
	(le)	1 A	2 A	5 A			
DC	(Ue)	250V	24V				
	(le)	0.5 A	2 A				
Operating Char	racteristics						
Actuation Speed, Max.		160 mm (6.29 in.)/s					
Actuation Speed, Min.		100 mm (3.93 in.)/min					
Actuator Travel, Max.		5 mm (0.20 in.)					
Actuation Frequency, Max.		2 cycles/s					
Mechanical Life		10,000,000 operations					
Electrical Life		1,000,000 operations					
Mechanical Life		10,000,000 operations					
Environmental							
Enclosure Type Rating		IP30					
Operating Temperature [C (F)]		-25+80 ° (-13+176 °)					
Pollution Degree		3					
Physical Charac	cteristics						
Housing Material		UL Approved glass-filled PBT					
Actuator Material		Stainless steel					
Mounting		2 x M4 front or 2 x M3 top					
Vibration		1055 Hz					
Shock		11 ms @ 30 g					
Conduit Entry		3x break-outs					
Color		Red					

- * Usable for ISO 13849-1:2006 and IEC 62061. Data other than B10d is based on:

 Usage rate of 1op/10 mins., 24 hrs/day, 360 days/year, representing
 51840 operations per year

 Mission time/Proof test interval of 38 years

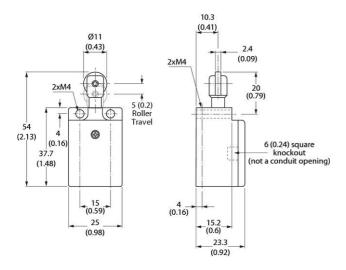
 ‡ The safety contacts are described as normally closed (N.C.) i.e., with the guard closed, actuator in place (where relevant) and the machine able to be started.

Product Selection

Actuator Type	Contact		Contact Action	Conduit	Туре	Cat. No.
			☐ Open ■ Closed ⊕ Positive Opening Point			
Top Push Roller (roller parallel to switch front)	Slow break before	1 N.O. & 1 N.C.	0 mm 1	3x breakouts	Imp 1 (roller parallel to switch front)	440P-M18001
Top Push Cross Roller (roller perpendicular to switch front)	make		11/12 23/24 2.5		Imp 2 (roller perpendicular to switch front)	440P-M18002

Approximate Dimensions

Dimensions are shown in mm (in.). Dimensions are not intended to be used for installation purposes.



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