



Imp 1

Imp 2

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.

Specifications

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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 10 ⁶ 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			for all applicand CSA NRTL			
Outputs						
Safety Contacts *		1 N.C. posit	ive break			
Auxiliary Contacts		1 N.O.				
Thermal CurrentI _{Ith}		10 A (Ith)				
Rated Insulation Voltage			(Ui) 500V			
Switching Current @ Voltage, Min.		25 mA @ 5V DC				
Utilization Category						
AC-15	(Ue)	500V	250V	100V		
	(le)	1 A	2 A	5 A		
DC	(Ue)	250V	24V			
	(le)	0.5 A	2 A			
Operating Characteristics						
Actuation Speed, Max.		160 mm (6.2	9 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)]		-2580° (-1	3176°)			
Operating Temperature [C (F)] Pollution Degree		-2580° (-1	3176°)			
		<u> </u>	3176°)			
Pollution Degree		3 UL Approve	d glass-filled	PBT		
Pollution Degree Physical Characteristics Housing Material Actuator Material		3 UL Approve Stainless ste	d glass-filled			
Pollution Degree Physical Characteristics Housing Material Actuator Material Mounting		3 UL Approve Stainless ste 2 x M4 front	d glass-filled			
Pollution Degree Physical Characteristics Housing Material Actuator Material Mounting Vibration		3 UL Approve Stainless ste 2 x M4 front 1055 Hz	d glass-filled eel or 2 x M3 to			
Pollution Degree Physical Characteristics Housing Material Actuator Material Mounting Vibration Shock		3 UL Approve Stainless ste 2 x M4 front 1055 Hz 11 ms @ 30	d glass-filled eel or 2 x M3 to			
Pollution Degree Physical Characteristics Housing Material Actuator Material Mounting Vibration		3 UL Approve Stainless ste 2 x M4 front 1055 Hz	d glass-filled eel or 2 x M3 to			

- * 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.

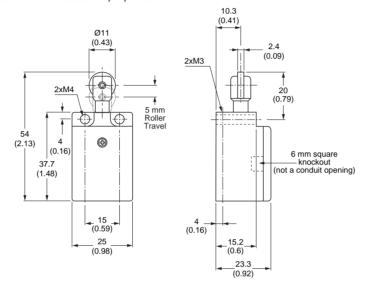


P	roc	luct	Se	lecti	ic

			Contact Action			
			□Open ■Closed			
Actuator Type	Contact		→ Positive Opening Point	Conduit	Туре	Cat. No.
Top push roller	Slow break before make		0 mm 1 5	3 x breakouts	Imp 1 (roller parallel to switch front)	440P-M18001
Top push cross roller		1 N.C. & 1 N.O.	23/24		Imp 2 (roller perpendicular to switch front)	440P-M18002

Approximate Dimensions [mm (in.)]

Dimensions are not intended to be used for installation purposes.



Wiring Diagrams

