

Limit Switches

Miniature Enclosed Reed

Class 9007 Type XA



Straight Plunger



Roller Plunger



Cross Roller Plunger

Description and Specifications

Sealed construction keeps contaminants out of the contact area, making it the ideal choice for low voltage, low current circuits used by programmable controllers.

Type XA is designed for use in applications where contact reliability, environmental immunity, small size, or low cost are required.

NOTE:

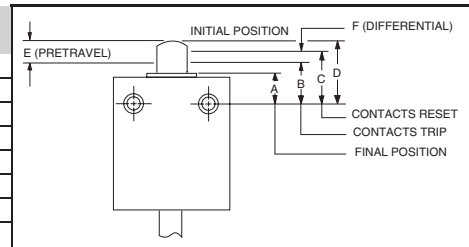
- Because reed switches are operated by a magnet, they should not be installed in areas where strong magnetic fields may be present. The devices should always be checked for proper operation after installation.
- Type XA **cannot be used in Division 2 locations** since the National Electrical Code (NEC) requires provisions for conduit connection. The Type C reed switches have this provision for conduit but the Type XA do not.

Cable Length* ft (m)	Straight Plunger		Roller Plunger		Cross Roller Plunger	
	N.O. Type	N.C. Type	N.O. Type	N.C. Type	N.O. Type	N.C. Type
3 (0.9)	XA7303E	XA7503E	XA7303D	XA7503D	XA7303DC	XA7503DC
6 (1.8)	XA7306E	XA7506E	XA7306D	XA7506D	XA7306DC	XA7506DC
9 (2.7)	XA7309E	XA7509E	XA7309D	XA7509D	XA7309DC	XA7509DC

* Other cable lengths are available. Order by changing the last two numerical digits of the Type number to the length desired.
Example: An XA7303E with 15 ft (4.5 m) of cable would become an XA7315E.

Operating Data

Dimensions in. (mm)	Top Push Rod (Type E)	Roller Plunger (Types D, DC)
Initial position (D)	0.690 (17.5)	1.190 (30.2)
Trip position (B)	0.620 (15.7)	1.120 (28.4)
Pre-travel (E)	0.07 (1.8)	0.07 (17.8)
Reset position (C) maximum	0.655 (16.6)	1.155 (29.3)
Differential (F)	0.015 (0.38)	0.015 (0.38)
Final position (A)	0.492 (12.5)	0.992 (25.2)
Total stroke	0.198 (5.0)	0.198 (5.0)
Operating force (max.)	2.75 lb (0.31 N)	2.75 lb (0.31 N)



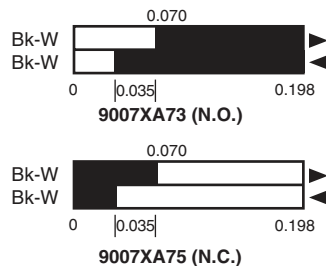
Contacts	The contact is a fully encapsulated, hermetically sealed reed, suitable for controlling solid-state loads as well as industrial relays. Switches can also be used as inputs to intrinsically safe systems. Use of a transient suppressor extends the life of the switch when used on heavy electrical loads.	
Enclosure Construction	Diecast zinc—baked, gray enamel finish. Meets NEMA Types 2, 4, 4X, 6P, 12 and 13 requirements. Oil-tight, dust-tight, water-tight, and submersible.	
Cable	SJTOWA jacketed cable with 18 gauge wire.	
Ambient Temperature	-20 to +140 °F (-28.9 to +60 °C).	
Agency Listings	UL: File E42259 CCN NKCR	CSA: File LR 25490, Class 3211 03

NOTE: The XA switch is available with a 3 ft (0.9 m) cable and 3-pin Brad Harrison male connector No. 40904 (or equivalent), Form Y190.

Maximum Current Ratings for Control Circuit Contacts—Type XA

AC—50/60 Hz						DC		
Volts	Inductive (35% Power Factor)			Continuous Carrying Amperes	Resistive (75% Power Factor) Make, Break, and Continuous Carrying Amperes	Volts	Resistive	
	Make		Break				Make and Break Amperes Single Throw	Continuous Carrying Amperes
	A	VA	A	VA				
120	2.0	240	0.2	24	0.5	120	0.2	0.5
240	1.0	240	0.1	24	0.5	—	—	—

Contact Diagrams



Dimensions

