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Miniature Enclosed Reed

Type XA is designed for use in applications where contact reliability, environmental immunity, small size, or low cost are required. Sealed construction keeps contaminants out of the contact area, making it the ideal choice for low voltage, low current circuits such as Programmable Controllers. ▲

NOTE: *Because reed switches are magnet operated, they should not be installed where strong magnetic fields may be present. The devices should always be checked for proper operation after installation.*

File 42259
CCN NKCR

File LR25490
Class 3211 03

Table 21.5: Class 9007 Type XA





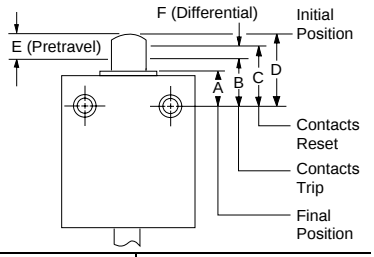


Cable Length ■	Straight Plunger				Roller Plunger				Cross Roller Plunger			
	N.O.		N.C.		N.O.		N.C.		N.O.		N.C.	
	Type	$ Price	Type	$ Price	Type	$ Price	Type	$ Price	Type	$ Price	Type	$ Price
3 ft	XA7303E	**96.00**	XA7503E		XA7303D	**114.00**	XA7503D		XA7303DC	**114.00**	XA7503DC	
6 ft	XA7306E	**105.00**	XA7506E		XA7306D	**120.00**	XA7506D		XA7306DC	**120.00**	XA7506DC	
9 ft	XA7309E	**111.00**	XA7509E		XA7309D	**128.00**	XA7509D		XA7309DC	**128.00**	XA7509DC	

▲ See current ratings chart on page 21-2 for contact specifications.

■ Other cable lengths are available. Order by changing the last two digits of the type number to the length desired, and add $1.50 per additional foot. Example: An XA7303E with 15 ft of cable would become an XA7315E.

Operating Data



	Top Push Rod (Type E)	Roller Plunger (Types D, DC)
Initial position (D)	.690 in.	1.190 in.
Trip position (B)	.620 in.	1.120 in.
Pretravel (E)	.07 in.	.07 in.
Reset position (C) max.	.655 in.	1.155 in.
Differential (F)	.015 in.	.015 in.
Final position (A)	.492 in.	.992 in.
Total stroke	.198 in.	.198 in.
Operating force (max.)	2.75 lb	2.75 lb

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 will extend life of the switch when using on heavy electrical loads.

Type XA cannot be used in Division 2 locations as the Type C Reed switches can, since the National Electrical Code (NEC) requires provisions for conduit connection. The Type C Reed switches have this provision for conduit and the Type XA does not.

Enclosure Construction: Die cast zinc-baked gray enamel finish. Meets NEMA Type 2, 4, 4X, 6P, 12 and 13 requirements. Oiltight, dusttight, watertight, and submersible.

Cable: SJTOWA jacketed cable with 18 gauge wire.

Ambient Temperature Range: -20°F (-28.9°C) to + 140°F (60°C).

NOTE: *The XA switch is available with 3 ft of cable and 3 pin Brad Harrison male connector No. 40904 (or equivalent). Form Y190 . . . . . .*

Lever Arm And Plunger Types





Table 21.6: Precision, Class 9007 Type AW

Select Switch		Select Operator	Lever Arm Type (Without Lever Arm. Select from CCW Operation ▲		Roller Plunger Type with Micrometer Adjustment		Push Rod Plunger Type with Micrometer Adjustment	
Mounting		**Contacts**	**Type**	**$ Price**	**Type**	**$ Price**	**Type**	**$ Price**
Surface Mounting	Plug-in	1 N.O.-1 N.C.	AW16		AW36		AW46	
		2 N.O.	■		—		—	
		2 N.C.	AW19■		—		—	
	Non-Plug-in Standard Box	1 N.O.-1 N.C.	AW12		AW32		AW42	
	Non-Plug-in Deep Box	1 N.O.-1 N.C.	AW14		—		—	
		2 N.O. - 2 N.C.	AW18		AW38		—	
Open Type (Without Box)	Plug-in	1 N.O.-1 N.C.	AO16		AO36		—	
		2 N.O.	■		—		—	
		2 N.C.	■		—		—	
	Non-Plug-in	1 N.O.-1 N.C.	AO12		—		—	
		2 N.O. - 2 N.C.	AO18		—		—	
Flush Mounting		1 N.O.-1 N.C.	AF12		—		—	
Nominal Operating Data	Pre-travel		5°		3/32 in.		3/32 in.	
	Total-travel		30°		1/4 ± 1/16 in. Adjustment		1/4 ± 1/16 in. Adjustment	
	Differential		21/2°		3/64 in.		3/64 in.	
	Reverse Over-travel		25°		—		—	
	Operating Torque or Force		23/4 lb-in		3 lb		3 lb	
	Repeat Accuracy		±.002 in. Linear travel of cam on 1-3/8 in. lever arm		±.001 in.		±.001 in.	

Note: Approximate shipping weight of Type AW switches is 13.8 lb (6.3 kg).

▲ Field convertible to CW operation.

■ 2 N.O. contacts only when operating Type AW19 in the clockwise direction. 2 N.C. contacts only when operating Type AW19 in the counterclockwise direction.

For lever arms, see pages 21-11 and 21-12. Acceptable wire sizes: 14–22 AWG. Recommended terminal clamp torque: 6–9 lb-in (0.68–1.02 N•m).

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