Sealed Basic Switches
Environment-proof

SE/XE Series

GENERAL INFORMATION

SE and XE switches are the smallest environment-proof switches offered by MICRO SWITCH. Both types enclose a precision basic switch within a corrosion resistant aluminum housing to seal the switch contacts against contamination. The cut-a-way drawing shows the method of sealing. Type SE switches enclose a type SM basic switch and XE switches enclose the smaller SX basic switch.

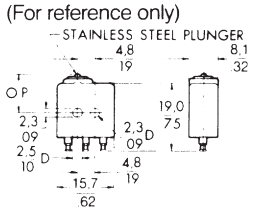
Switches held depressed for extended periods of time at temperature extremes may experience retarded plunger return upon deactuation. Where such a condition exists in the application, contact Relay Specialities for special design variations that are available.

FEATURES

- Water tight seal per enclosure design symbol 3, MIL-S-8805
- Power load switching capability up to 7 amperes
- Temperature tolerance up to + 221°F (105°C)
- High temperature construction for use to + 300°F (149°C)*
- Several auxiliary actuators*
- Choice of termination
- 2 listings available which meet MIL-S-8805 Qualified products list
- 4SE are UL recognized and CSA certified
- 4XE are UL recognized

TYPICAL DIMENSIONS

(For reference only)



XE SERIES ORDER GUIDE

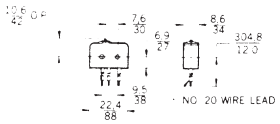
Catalog Listing	Recommended For	Electrical Data**	O.F. max. newtons ounces	O.T. min. mm inches	D.T. max. mm inches	O.P.† mm inches
1XE1* (MS27994-1)	Most applications①. MIL-S-8805 requirements	7 Amps **C**	1,39-4,73 **5-17**	0,1 **.004**	0,13 **.005**	10,8 **.425**
1XE301* (MS27994-5)	Gold contacts① MIL-W-22759/11 wire	1 Amp **R**	1,39-4,73 **5-17**	0,1 **.004**	0,13 **.005**	10,8 **.425**
4XE1*	UL listing and UL and CSA listed leadwire①	7 Amps **D**	1,39-4,73 **5-17**	0,1 **.004**	0,13 **.005**	10,8 **.425**
5XE1*	Oil resistant Fluorosilicone seal②	7 Amps **C**	1,39-4,73 **5-17**	0,1 **.004**	0,13 **.005**	10,8 **.425**
1XE1-T (MS27994-3)	For customer leading①	7 Amps **C**	1,39-4,73 **5-17**	0,1 **.004**	0,13 **.005**	10,8 **.425**

* These listings have one foot leads.
① Temperature range: −65° to 221°F (−54° to 105°C)
② Temperature range: −15° to 185°F (−26° to 85°C)

Except where stated† ± 0.51 mm ± .020 in.

ELECTRICAL DATA **

C	7 amps res., 4 amps ind. (sea level), 7 amps res., 2.5 amps ind. (50,000 feet), 28 VDC 7 amps res., 4 amps ind. (sea level), 115 VAC, 400 Hz.
D	UL Rating, 7 amps, 250 VAC, 60 Hz. L7
R	1 amp res. 0.5 amp ind. 28 VDC



SE SERIES ORDER GUIDE

Catalog Listing	Recommended For	Electrical Data***	O.F. max. newtons ounces	O.T. min. mm inches	D.T. max. mm inches	O.P.† mm inches
1SE1*	Most applications①	5 Amps **A**	1,39-4,73 **5-17**	0,08 **.003**	0,1 **.004**	10,8 **.425**
4SE1*	UL and CSA listing and UL and CSA listed lead wire①	5 Amps **B**	1,39-4,73 **5-17**	0,08 **.003**	0,1 **.004**	10,8 **.425**
5SE1*	Oil resistant. Fluorosilicone seal②	5 Amps **A**	1,39-4,73 **5-17**	0,08 **.003**	0,1 **.004**	10,8 **.425**
7SE1*	Lower force①	5 Amps **A**	1,11-2,22 **4-8**	0,08 **.003**	0,1 **.004**	10,8 **.425**
1SE1-T	For customer leading①	5 Amps **A**	1,39-4,73 **5-17**	0,08 **.003**	0,1 **.004**	10,8 **.425**

* These listings have one foot leads.
① Temperature range: −65° to 221°F (−54° to 105°C)
② Temperature range: −15° to 185°F (−26° to 85°C)

ELECTRICAL DATA ***

A	5 amps res., 3 amps ind. (sea level) 5 amps res., 2.5 amps ind. (50,000 feet), 28 VDC. 5 amps res., 5 amps ind., 125 or 250 VAC, 60 Hz.
B	UL and CSA Rating — 5 amps, 250 VAC, 60 Hz. L4