3SE International Limit Switches Position Switches

3SE3 160 / 3SE3 180

Metal enclosure with molded cable, 30 and 40 mm width

Overview

In harsh industrial environments and in installations with limited space, the small 3SE3 160 and 3SE3 180 compact switches are ideal. The switches are already equipped with a molded cable of 2 m in length and can therefore be installed in the smallest spaces.

Both the housing and the actuator head are made of metal and therefore meet the high IP 67 degree of protection. Various actuator heads, in the form of roller plungers, overtravel plungers and roller cranks, are available.

They can be fitted alternatively with snap-action contacts. 1 NO + 1 NC. The NC contact complies with the requirements for positive opening according to IEC 60 947-5-1.

The 3SE3 1 position switch with molded cable is available in different sizes:

- The 3SE3 180 series complies with the EU standard and features a 30 mm wide enclosure with drilled holes at a spacing of 20 mm.
- The 3SE3 160 series meets the requirements of the US market and features a 40 mm wide enclosure with drilled holes at a spacing of 25 mm.

Technical data

30/min Switching frequency Rated insulation voltage Ui 500 V Pollution degree Class 3 Conventional thermal current I_{th} 10 A -30 to +85 °C Ambient temperature Mechanical endurance 10×10^6 operations Electrical endurance 500 000 operations PVC-5 x 0.75 mm² (18 AWG); br-bl: S, bk-bk: NC, ye/gy: 0 V Connecting cable (2 m)

Degree of protection Contact opening Operating speed up to 80% operating distance

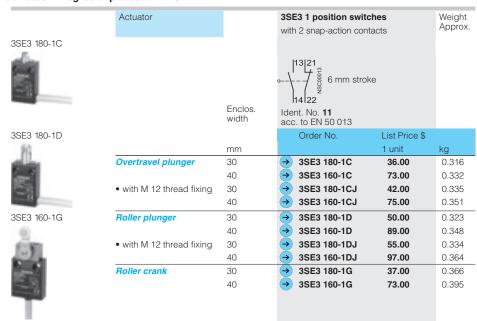
- 3SE3 1.0-.C.
- 3SE3 1.0-.D.
- 3SE3 1.0-.G.

2 x 1.25 mm

≤ 1 m/s Vertical ≤ 1 m/s Lateral ≤ 0.5 m/s ≤ 1.5 m/s

Selection and ordering data

2 contacts · Degree of protection IP 67



Positive opening acc. to IEC 60 947-5-1, Appendix K.

Switch blocks and travel

Switch block	Nominal travel		
Internal circuit diagram	0-line reference line acc. to EN 50 041	contact closed	
Terminal designation acc. to EN 50 013	** positive opening to IEC 60 947-5-1-3	contact open	
Snap-action contacts 1 NO + 1 NC	3SE3 1.0-1C., -1D.	3SE3 1.0-1G	
br law gripe	2,5 4** 5 mm 100% BK-BK BN-BU BN-BU 0 1,5 NSC0_00265c	0° 20°50°** 75° 100% BK-BK BN-BU BK-BK BN-BU	BK = black BN = brown BU = blue GN/YE = green/yellow

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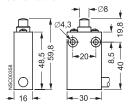
Position Switches

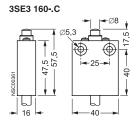
3SE3 160 / 3SE3 180

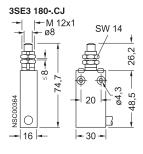
Metal enclosure with molded cable, 30 and 40 mm width

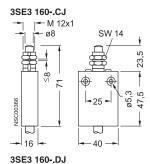
Dimension drawings

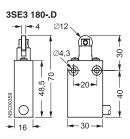
3SE3 180-.C

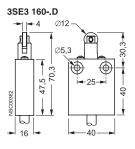


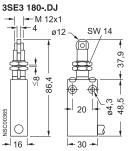


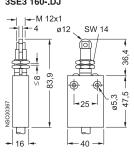




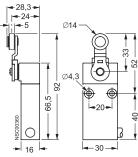


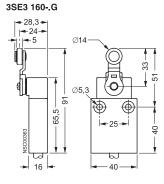












All devices with 2 m cable