

SX limit switch box series

Limit switch box designed for explosionproof applications.

Features

- Twin shaft design
- Metallic self lubricating bushings
- Aluminium enclosure with thick protective powder coating
- Up to three cable entries either metric or imperial
- Multiple indicator options
- Easy wiring through the terminal PCB board

Approvals

ATEX, IECEx, EAC, CCOE:

Ex II 2GD Ex db IIB T4/T5/T6 Gb
Ex tb IIIC T135/T100/T85°C Db
Ta: -20 °C ≤ Ta ≤ 105 °C / 75 °C / 60 °C

UL:

Class I Division 1 Groups C, D Division 2 Groups A, B, C, D
Class II Division 1 Groups E, F, G Division 2 Groups F, G

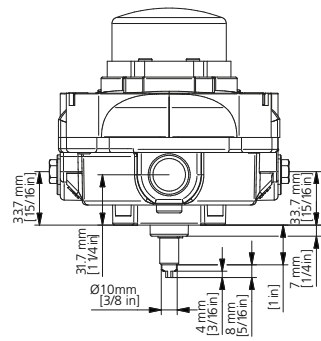
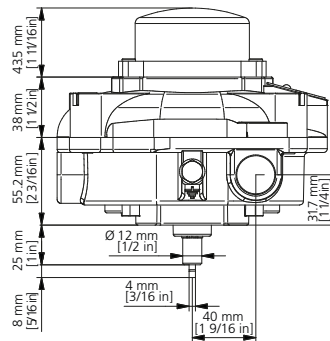
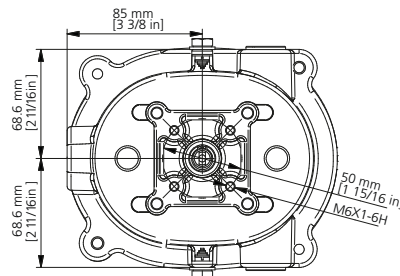
SIL certificate: Up to SIL 3 certified by TÜV

Protection rating: IP66/67
NEMA 4 X on request

Temperature:
-20 to +80 °C (-4 to +176 °F) standard temperature range



SX limit switch box



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Nomenclature

SX N1 2 0 0 - 1 0 X 3 2 A 4

Box

SX = Exd IIB applications

Switch

01 = Electro mec. switch, SPDT, silver contacts, up tp SIL3 (Switch qty: 2,3,4; Terminal digit: 0; temp digit: A)
 03 = Electro mec. switch, SPDT, gold contacts, up tp SIL3, Exia ready, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: A)
 1F = Electro mec. switch, DPDT, silver contacts, up tp SIL3 (Switch qty: 1,2; Terminal digit: 0; temp digit: A)
 06 = Electro mec. switch, SPDT, gold contacts, up tp SIL3, Exia ready, (Switch qty: 1,2; Terminal digit: 0; temp digit: A)
 C4 = Magnetic reed SPDT, hermetically sealed, up to SIL3, Exia ready, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: A)
 C8 = Magnetic reed DPDT, hermetically sealed, up to SIL3, Exia ready, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: A)
 N1 = Mag. proximity SPDT silver hermetically sealed up to SIL3, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: A)
 N3 = Mag. proximity SPDT gold hermetically sealed up to SIL3, Exia ready, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: A)
 N4 = Mag. proximity DPDT silver hermetically sealed up to SIL3, (Switch qty: 1,2,3,4; Terminal digit: A; temp digit: A)
 32 = Inductive proximity NBN4-12GM40-Z0 2 wires, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: B)
 73 = Inductive proximity NBB2-V3-E2, PNP NO, up to SIL3, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: B)
 75 = Inductive proximity IS5026, 2 wire, NO /NC, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: A)
 70 = Inductive NAMUR proximity NJ2-V3-N, 2 wire, up to SIL3, Exia ready, (Switch qty: 1,2,3,4; Terminal digit: 0; temp digit: A)
 T0 = 4-20mA analog position transmitter, (Switch qty: 0; Terminal digit: A; temp digit: A)
 T1 = 4-20mA analog position transmitter + electro mec. switch, SPDT, silver contacts, (Switch qty: 1,2; Terminal digit: A; temp digit: A)
 T4 = 4-20mA analog position transmitter + mag. reed switch, SPDT, (Switch qty: 1,2; Terminal digit: A; temp digit: A)
 H0 = 4-20mA HART position transmitter, Exia ready, (Switch qty: 0; Terminal digit: A; temp digit: A)
 H4 = 4-20mA HART position transmitter + mag. reed switch, SPDT, (Switch qty: 1,2; Terminal digit: A; temp digit: A)
See additional information and options on pages 14-19

Switch Quantity

0 = no switches for digital feedback
 1 = N° 1 switch (related to switch description)
 2 = N° 2 switch (related to switch description)
 3 = N° 3 switch (related to switch description)
 4 = N° 4 switch (related to switch description)

Terminals

0 = Pre-wired terminal strip with additional extra poles for solenoid valve connection
 (for switches 01, 03, 1F, 06 C4, C8, N1, N3, N4, 32, 70, 62, 73, 75)
 A = Pre-wired terminals without solenoid valve connection (for switches 62, T0, T1, T4, H0, H4, P0)

Coating

0 = Black powder coating

Cable Entries

1 = 2 cable entries 1/2" NPT
 2 = 2 cable entries M20x1.5
 3 = 2 x 1/2" NPT + 1 x 3/4" NPT cable entries

Visual Position Indicator

0 = 3D plastic visual position indicator red and green
 2 = 3-position indicator (T-port 180 deg. Blocked centre)
 A = 3-position indicator (L-port)
 B = 3-position indicator (T-port 180 deg.)
 T = 3D stainless steel position indicator
See additional information and options on page 11

Approval

X = ATEX and IECEx certified box
 G = EAC certification for Russian market
 J = CCOE certification for Indian market
 U = UL certified box (for UL certified units please contact your local office for temperature selection)
 W = Weather proof
See additional information and options on page 13

Marking

0 = Standard location
 3 = Certification marking: Ex II 2GD Exd IIB
 7 = cULus Class1/2 Div 1
 8 = cULusClass 1/2 Div 1/2 (with switches code: C4, C8, N1, N3)
See additional information and options on page 13

IP Protection rating

1 = Weather proof IP 66/67
 7 = Nema 4 and 4X

Temperature

A = Ambient temperature -20 to + 80 °C (-4 to +176 °F) (standard for all switch options, excluding: 32, 70, 73, 75)
 B = Ambient temperature range -20 to +70 °C (for switches 32, 73)

Material

3 = Die cromated aluminium heavy duty body and cover