SF - SS - SB limit switch box series

Multi purpose limit switch box for safe area or Intrinsically Safe applications.

Features

- Twin shaft design
- · Self lubricating bushings
- Copper free aluminium or 316 stainless steel housing option for maximum corrosion protection
- · 2 cable entries either metric or imperial
- Multiple indicator options
- · Easy wiring through the terminal PCB board
- · Position transmitter board optional
- Suitable for arctic environments

Approvals

ATEX, IECEx, EAC, CCOE:

 SF-SS series (ATEX & IECEx)
 SB series (ATEX only)

 Ex II 1GD Ex ia IIC T4...T6 Ga
 Ex II 2GD Ex ia IIC T6...T4 Gb

 Ex ia IIIC T95°C...T120°C Da
 Ex ia IIIB T44°C...T108°

UL: Class I Division 2 Groups A, B, C, D Class II Division 2 Groups F, G

SIL certificate: Up to SIL 3 certified by TÜV

Protection rating: IP 66 / 67

Nema 4 4X on request

Temperature:

-20 to +80 °C (-4 to +176 °F) standard temperature range -60 to +105 °C (-76 to +221 °F) available on request



SF limit switch box

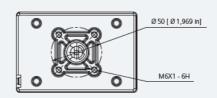


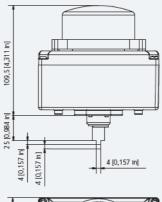
SS limit switch box

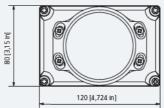


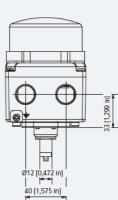
SB limit switch box











Nomenclature SB N1 2 0 0 - 1 1 X 1 1 A 4 Box SB = Aluminium body with polycarbonate cover SF = Aluminium enclosure SS = 316 stainless steel enclosure 01 = SPDT el.mech. switch silver plated contacts 03 = SPDT el.mech. switch gold plated contacts (for Ex'ia') DPDT el.mech. switch silver plated contacts C4 = SPDT magnetic hermetically sealed reed switch (for Ex'ia' low temperature) C8 = DPDT magnetic hermetically sealed reed switch (for Ex'ia' low temperature) N1 = SPDT magnetic hermetically sealed silver plated snap acting contacts N3 = SPDT magnetic hermetically sealed gold plated snap acting contacts N4 = DPDT magnetic hermetically sealed silver plated snap acting contacts 62 = Inductive proximity NAMUR sensor SJ3,5-SN 2 wire NC logic (for Ex'ia' low temperature safety function) 70 = Inductive proximity NAMUR sensor NJ2-V3-N 2 wire NC logic (for Ex'ia') 73 = Inductive proximity sensor model NBB2-V3-E2, 3 wire PNP NO, 10-30 VDC, 0-100 mA 86 = Inductive proximity NAMUR sensor model NJ4-12GK-SN 2 wire NC logic (for Ex'ia' safety function) T0 = 4-20 mA position transmitter H0 = 4-20 mA HART position transmitter Atex Ex ia IIC T6 / T4 certified See additional information and options on pages 14-19 Switch Quantity = 2 switches 3 = 3 switches **Terminals** = Screw terminals with extra poles for solenoid valve connection = Blue screw type terminals with extra poles for sov connection (for Ex'ia') Screw terminal strip Blue cage clamp terminals (for low temperature and switch codes 62, 63, H0) E = Cage clamp terminals (for low temperature) Coating 0 = Black powder coating Blue powder coating Electro polished finishing (on SS series) 1 = 2 cable entries 1/2 " NPT 2 = 2 cable entries M20 x 1.5p **Visual Position Indicator** 3D plastic visual position indicator red and green No visual position indicator T = 3D stainless steel position indicator See additional information and options on page 11 Weather proofATEX and IECEx certified box = ATEX certified box and SIL2 approval = ATEX certified box and SIL3 approval G EAC certification for Russian market = CCOE certification for Indian market = UL certified box * SIL2 / SIL3 options available on request See additional information and options on page 13 Standard location Instrinsically safe certification cULus Class 1/2 Div 2 (with switches code: C4, C8, N1, N3) See additional information and options on page 13 IP Protection rating 1 = Weather proof IP66 / IP67 7 = NEMA 4 and 4XTemperature A = Ambient temperature range: -20 to +80 °C (-4 to +176 °F) L = Ambient temperature range: -40 to +80 °C (-40 to +176 °F) P = Ambient temperature range: -60 to +80 °C (-76 to +176 °F) for switch code C4 U = Ambient temperature range: -20 to +40 °C (-4 to +104 °F) B = Ambient temperature range: -20 to +70 °C (-4 to +158 °F) Die-cast aluminium heavy duty body and polycarbonate cover (on SB series) Copper free aluminium (on SF series) 316 stainless steel heavy duty enclosure (on SS series)