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)
Ex II 1GD Ex ia IIC T4...T6 Ga
Ex ia IIIC T95°C...T120°C Da
-60°C<Ta<+105°C

SB series (ATEX only)
Ex II 2GD Ex ia IIC T6...T4 Gb
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

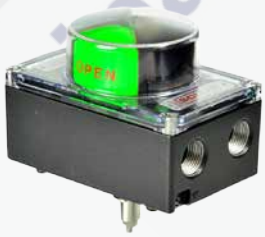
Temperature:
-20 to +80 °C (-4 to +176 °F) standard temperature range
-60 to +105 °C (-76 to +221 °F) available on request

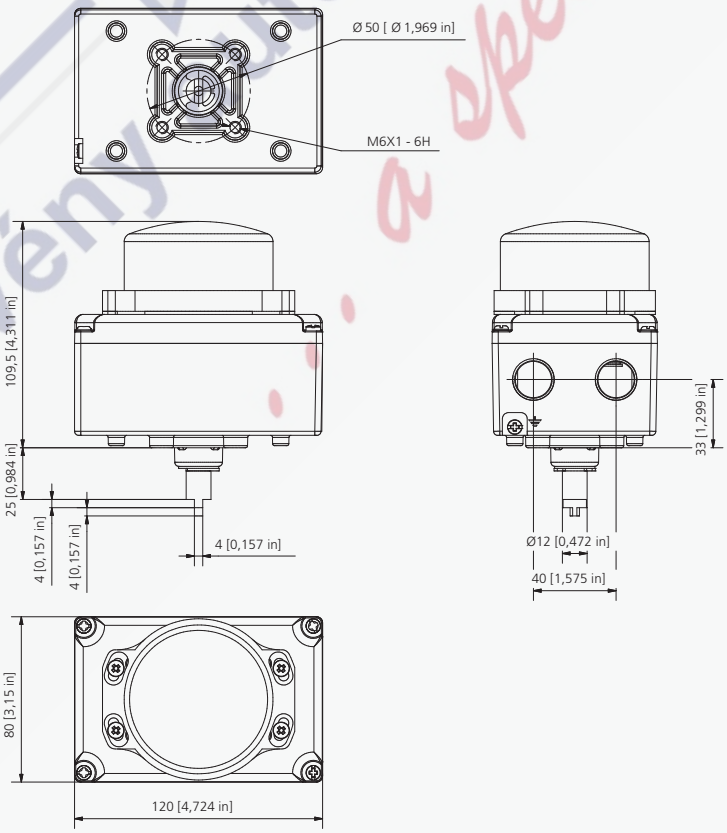
ATEX SIL SIL LEVEL 3 PESO

SF limit switch box

SS limit switch box

SB limit switch box





A.S.G Hajtó Kft. ipari szerelvény automatizálás a specialista!

SF - SS - SB limit switch box series

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

Switch
01 = SPDT el.mech. switch silver plated contacts
03 = SPDT el.mech. switch gold plated contacts (for Ex'ia')
1F = 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 = 2 switches
3 = 3 switches

Terminals
0 = Screw terminals with extra poles for solenoid valve connection
2 = Blue screw type terminals with extra poles for sov connection (for Ex'ia')
A = Screw terminal strip
8 = 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
1 = Blue powder coating
E = Electro polished finishing (on SS series)

Cable Entries
1 = 2 cable entries 1/2" NPT
2 = 2 cable entries M20 x 1.5p

Visual Position Indicator
0 = 3D plastic visual position indicator red and green
1 = No visual position indicator
T = 3D stainless steel position indicator
See additional information and options on page 11

Approval
W = Weather proof
X = ATEX and IECEx certified box
A = ATEX certified box
B = ATEX certified box and SIL2 approval
C = ATEX certified box and SIL3 approval
G = EAC certification for Russian market
J = CCOE certification for Indian market
U = UL certified box
* SIL2 / SIL3 options available on request
See additional information and options on page 13

Marking
0 = Standard location
1 = Instrinsically safe certification
9 = 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 4X

Temperature
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)

Material
2 = Die-cast aluminium heavy duty body and polycarbonate cover (on SB series)
4 = Copper free aluminium (on SF series)
6 = 316 stainless steel heavy duty enclosure (on SS series)