SB (SERIES LIMIT SWITCH BOX)

The SOLDO SB series limit switch box provides a compact design and low cost for both visual and remote electrical indication of rotary valve/actuator position. The big size 3D rotor provides high visibility confirmation of valve/actuator position. The wide variety of options make the SB series the ideal multi-purpose limit switch for use in IP67 weather proof applications. Hermetically sealed and solid state switch options also make the SB series suitable for use in intrinsically safe application. SOLDO has the flexibility and know how to offer an effective support whenever specific needs require the development of customised solutions.

(WEATHER PROOF)

IP67 and Nema 4 and 4X weather proof enclosure.

(SHOCK RESISTANT HOUSING)

Die cast aluminium body polyester powder coated inside and outside plus stainless steel shaft and VO and UV resistant polycarbonate cover, make this unit ideal for use in hostile environments. SB series body is available black painted or blue RAL5015 for intrinsically safe applications. Housing has captive cover screws.

(HIGH SIZE 3D POSITION INDICATOR)

SB series mounts as standard a large two-colours 3D position indicator; it is easy to see real valve position both looking from top and from side of the valve. Indicator is mounted on a splined retainer in order to be finely and easily adjusted.

(JUNCTION BOX)

SB series can be provide with extra terminal strip to accommodate external solenoid valve and has two M20x1.5 [1/2"] npt/f or PG13.5 as option] cable entries. This feature provides a significant cost saving by eliminating the need for a separate junction box and associated labour. Cable entries have a 13 mm thread thickness, this feature prevents housing demage due to very heavy cables or cable glands. Several terminal strip option are available: blue or green colour, cage clamp anti vibration or screw type.

(HIGH RESOLUTION SPLINED CAMS)

Easy-set cams are splined spring loaded and independently adjustable. This design offers tool free calibration and positive vibration resistant engagement.

(SWITCH OPTIONS)

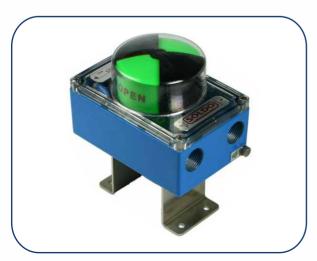
SB series can be provided with different types of switches: SPDT or DPDT electromechanical silver plated or gold plated contacts; cylindrical, V3 or slot type inductive proximity NPN or PNP; SPDT or DPDT magnetic proximity. Is also available a complete range of limit switch boxes EEx ia ATEX certificate (consult SI bulletin). AS-I digital communication interface card, 3 position dribble control, 2 wire 4-20mA current position transmitter and pneumatic 3 way valves are also available. An anti-condensation 24V resistance is available on request.

(STANDARDISED MOUNTING)

Housing conforms to international dimension standards VDI/VDE3845 output shaft dimensions and ISO F05 bolt hole locations. This maximizes interchangeability plus reduces cost by eliminating need for switch/actuator coupler. A complete range of stainless steel mounting kit to fit SB both on pneumatic actuators (standardised or not) and on lever operated valves is available.

(SST SHAFT MOUNTED ON BEARINGS)

No metal to metal contact between body and rotating shaft warrants a very low torque. \\



(MATERIALS)

Body : die cast, die cromated and polyester powder coated

aluminium

Cover : UV resistant and VO polycarbonate

Shaft : stainless steel Fasteners : stainless steel

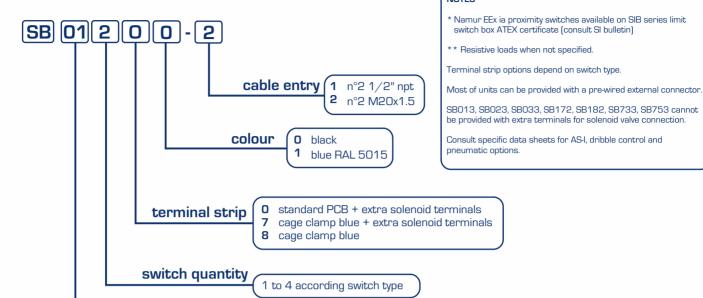
(RATINGS)

Temperature range: standard -20°C + 80°C
Temp. range may vary due to switch range
Low temp. and high temp. execution available on request
Electrical: according to switch option
Consult "B02003-E-SWITCH_DATA" bulletin for switch rating



SB (SERIES LIMIT SWITCH BOX)

(STANDARD OPTIONS AVAILABLE - Nomenclature)



switch type *

rating **

max q.ty installed

01	electromech SPDT silver plated contacts	max 5A@250VAC - 3A@24VDC min 50mA@250VAC - 50mA@24VDC	3
02	electromech SPDT gold plated contacts sealed	max 3A@250VAC - 1A@24VDC min 5mA@250VAC - 1mA@24VDC	3
03	electromech SPDT gold plated contacts	max 3A@250VAC - 1A@24VDC min 5mA@250VAC - 1mA@24VDC	3
17	electromech DPDT gold plated contacts sealed	max 0.1A@250VAC - 0.1A@24VDC min 1mA@24VDC	2
18	electromech DPDT silver plated contacts sealed	max 2A@250VAC - 2A@24VDC min 50mA@24VDC	2
C3	proximity SPST bifurcated inert gas hermetically sealed	max 1,5A@120VAC - 0,5A@24VDC (resistive/inductive)	2
C4	proximity SPDT inert gas hermetically sealed	max 1A@120VAC - 1A@24VDC - max 25W	2
32	proximity NO P+F NBN4 12GM40 ZO	2 wire amplified, 5-60VDC, 2-100mA	2
73	proximity PNP NO P+F NBB2 V3 E2	3 wire amplified, 10-30VDC, 100mA	3
75	proximity NO / NC programmable IFM IS5026	2 wire amplified, 5-36VDC, 200mA	3
83	proximity NO P+F NBB3-V3-Z4	2 wire amplified. 5-60VDC, 100mA	3
91	4-20 mA transmitter	10-30VDC direct - reverse action	1
N1	SOLDO magnetic proximity SPDT silver plated	max 250 VAC, 28 VDC, resistive load 5A, inductive load 4A	3
N2	SOLDO magnetic proximity SPDT gold plated	max 250 VAC, 30 VDC, resistive load 1A, inductive load 0.5A	3
N3	SOLDO magnetic proximity SPDT gold / bifurcated	max 250 VAC, 30 VDC, resistive load 1A, inductive load 0.5A	3

(DIMENSION mm - inch)

