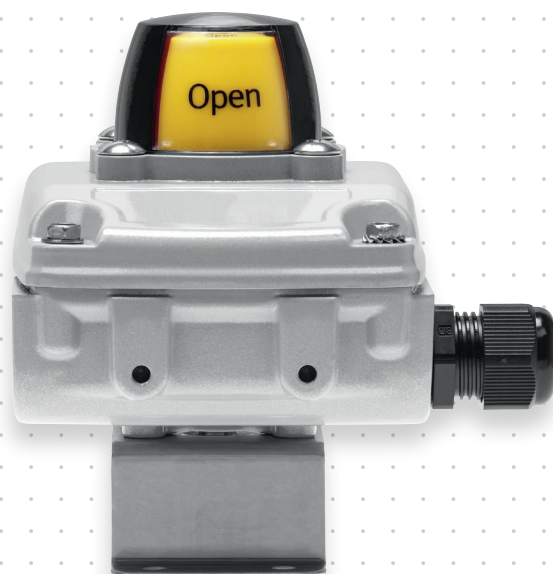




Limit switch box SRBC for quarter turn actuators



Highlights

- Weather-tight housing for outdoor applications
- Extensive range of switch variants for almost all applications
- Low-temperature variant down to $-40\text{ }^{\circ}\text{C}$
- IECEx variants with local approvals
- cCSAus Listed, General Purpose
- SIL 3 in accordance with IEC 61508
- Two cable inputs for common power supply for the sensors and solenoid valve
- M12 plug for quick commissioning
- Various clearly visible optical position indicators possible

The limit switch box SRBC is the reliable and cost-effective solution when it comes to electronic position sensing and optical position indication of automated process valves. The sturdy version with IP66, IP67 and Type4/4X is ideal for use indoors and outdoors, even in aggressive or corrosive environments.

Flexible and suitable for many functions

The numerous mechanical, inductive or magnetic switch options make the SRBC extremely flexible and suitable for almost any application. At the same time, the two cable inputs enable solenoid valves and other devices to be connected. The highly visible position indicator makes it really easy to identify the switching status – even from a distance.

Safe: explosion protection included

The range includes intrinsically safe variants, certified to ATEX for Zone 1 and 21 for use in potentially explosive areas.

Quick and easy mounting and commissioning

Thanks to the pre-assembled mounting adapters, the limit switch box can be mounted quickly and easily on quarter turn actuators with hole pattern to VDI/VDE 3845. There are also variants without a mounting adapter so that other interfaces

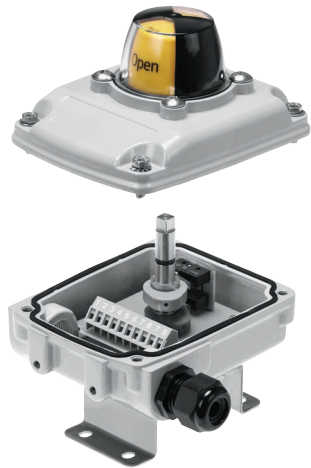
and products, such as process valves or gear units, can be used. SRBC can not only be mounted quickly on the quarter turn actuator, but is also very easy to commission because the actuating cams can be adjusted without any additional tools. In addition, there are variants with M12 plugs that enable even faster connection and commissioning.



Additional information:

Product page

> www.festo.com/catalogue/srbc

**Sophisticated technology for simple mounting and reliable, safe operation**

The limit switch box SRBC is extremely versatile in use. Thanks to the sturdy design of the SRBC, both on the outside and inside, with the aluminium housing and the stainless steel mounting adapter, the high IP and NEMA protection class, the easy to configure actuating cams and the pre-assembled mounting adapter, as well as the versatile switch options make mounting quick and simple, and operation flexible and safe.

Highly flexible: many switch variants for different applications**Switch types**

Mechanical switches	• 3-wire SPDT, Omron SS-5 • 3-wire SPDT (gold contacts for -40°C), Omron D2SW-01L1T
Inductive switches	• 2-wire NAMUR, NC, Pepperl+Fuchs NCB2-V3-NO • 2-wire DC, NO, Pepperl+Fuchs NBB3-V3-Z4 • 3-wire PNP, NO, Pepperl+Fuchs NBB2-V3-E2 • 3-wire NPN, NO, Pepperl+Fuchs NBB2-V3-E0
Magnetic switch	• 3-wire SPDT, Hamlin 59140

General technical data

Cable input	2x M20x1.5 or 1x M20x1.5 and 1x M12 plug
Optical position indicator	Standard: 3D OPEN-CLOSE position indicator / yellow-red Further position indicators optionally available as accessories – see peripherals overview
Mounting	DIN 5211 – F05 hole pattern or pre-assembled fixed mounting adapter 80x30x20 mm for interface VDI/VDE 3845 (NAMUR) Pre-assembled flexible mounting adapter 80x30x20 mm / 80x30x30 mm / 130x30x30 mm for interface VDI/VDE 845 (NAMUR) Other mounting adapters can be found in the accessories
Electrical connection	10-pin terminal strip or M12 plug
Solenoid valve connection	Two cable inputs for common power supply for the sensors and solenoid valve
Number of switches	2
Switch type	Mechanical, inductive, magnetic reed

Materials

Housing	Cast aluminium, epoxy-coated
Shaft	Stainless steel
Screws	Stainless steel
Seals	NBR or silicone
Mounting adapter	Stainless steel

Operating and environmental conditions

Housing protection class	IP66, IP67, Type 4/4X
cCSAus	Listed ordinary location
ATEX	II 1GD Ex ia IICT6/T5Ga II 1GD Ex ia IIIC Txx°C Da
Safety integrity level (SIL) to IEC 61508	Up to SIL 3
Ambient temperature	$-40 \dots 80^{\circ}\text{C}$



Peripherals overview

Accessories

[1]	SRBC-....
[2]	SRBC-...-M12-...
[3]	SRBC-...-C2 / NETC
[4]	NEBV
[5]	NEBU
[6]	SACC-S4-T-T
[7]	SACC-S4-T
[8]	SASF-S4-DE-A1
[9]	SASF-S4-DE-A2
[10]	SASF-S4-DE-A3
[11]	SASF-S4-DE-A4
[12]	SASF-S4-DE
[13]	DARQ-K-X1-A2-F05-30-R1
[14]	DARQ-K-X1-A1-F05-30-R1
[15]	SRBC-CA3-... / DARQ-K-X1-A1-F05-20-R1
[16]	SRBC-CA4-... / DARQ-K-X1-A3-F05-20-R1
[17]	DARQ-K-X1-A3-F05-50-R1
[18]	SRBC-CA5-...

