

# limit switch box

## SRBE-CA3-YR90-N-1-N-C2M20-EX

Part number: 3471017

FESTO

For electrical feedback and position monitoring of process valves actuated with pneumatic quarter turn actuators, inductive measuring principle.



### Data sheet

Feature	Value
Design	Angular
Based on the standard	EN 60947-5-2 ISO 5211 VDI/VDE 3845
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive explosion protection (ATEX) in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
ATEX category Gas	II 2G
Explosion ignition protection type Gas	Ex db IIC T6 Gb
ATEX category Dust	II 2D
Explosion ignition protection type Dust	Ex tb IIIC T...°C Db
Explosion protection certification outside the EU	EPL Db (BR) EPL Db (CN) EPL Db (IEC-EX) EPL Db (IN) EPL Db (KR) EPL Gb (BR) EPL Gb (CN) EPL Gb (IEC-EX) EPL Gb (IN) EPL Gb (KR)
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +60°C
Max. surface temperature	61 °C
Certificate issuing department	18-GA4BO-0516X 18-GA4BO-0517X DNV 16.0067X FTZU 15 ATEX 0095X GYJ 16.1497X IECEx FTZU 15.0014X KCC-18-GA4BO
Materials note	Conforms to RoHS
Safety Integrity Level (SIL)	SIL 2
Measuring principle	Inductive
Ambient temperature	-20 ... 60 °C
Switch output	NPN
Switching element function	Normally open contact
Max. output current DC	100 mA
Voltage drop	≤ 3 V
Residual current	0 ... 0.5 mA

<b>Feature</b>	<b>Value</b>
Short circuit strength	Pulsing
Operating voltage range DC	10 ... 30 V
Idle current	≤ 15 mA
Polarity protected	for all electrical connections
Electrical connection	10-pin Screwed terminal
Connectable nominal conductor cross section	0.25 ... 2.5 mm <sup>2</sup>
Cable gland connection	M20x1,5
Mounting type	On flange to ISO 5211 With mounting bracket
Connection for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Assembly position	Any
Product weight	1,700 g
Housing colour	silver
Material housing	Die-cast aluminium, painted
Material seals	NBR
Material shaft	High alloy steel, non-corrosive
Material screws	High alloy steel, non-corrosive
Material mounting bracket	High alloy steel, non-corrosive
Material indicator	PC
Material snap ring	High alloy steel, non-corrosive
Material disc	High alloy steel, non-corrosive
Position indicator	Yellow/red
Setting range, angle recording	0 ... 90 deg
Storage temperature	-20 ... 60 °C
Protection class	IP67
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
PWIS conformity	VDMA24364 zone III
Degree of contamination	3