

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

Part number: 3471017

FESTO



 General operating condition

## Data sheet

Feature	Value
Design	Square
Based on standard	EN 60947-5-2 ISO 5211 VDI/VDE 3845
Approval	RCM
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Explosion protection	Zone 1 (ATEX) Zone 1 (BR) Zone 1 (CN) Zone 1 (IEC-EX) Zone 1 (KR) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (BR) Zone 21 (CN) Zone 21 (IEC-EX) Zone 21 (IN) Zone 21 (KR) Zone 21 (UKEX) Zone 22 (ATEX)
ATEX category gas	II 2G
Explosion ignition protection type for gas	Ex db IIC T6 Gb
ATEX category dust	II 2D
Explosion ignition protection type for dust	Ex tb IIIC T...°C Db
Explosion protection certification outside the EU	EPL Db (BR) EPL Db (CN) EPL Db (GB) EPL Db (IEC-EX) EPL Db (IN) EPL Db (KR) EPL Gb (BR) EPL Gb (CN) EPL Gb (GB) EPL Gb (IECEX) EPL Gb (IN) EPL Gb (KR)
Explosion ambient temperature	-20°C ≤ Ta ≤ +60°C
Max. surface temperature	61 °C

Feature	Value
Certificate issuing authority	DNV 16.0067X Eurocert. SIL202587141 FTZU 15 ATEX 0095X GYJ16.1497X GYJ23.1167X IECEX FTZU 15.0014X KCC-18-GA4BO
Note on materials	RoHS compliant
Safety Integrity Level (SIL)	SIL 3
Measuring principle	Inductive
Ambient temperature	-20 °C ... 60 °C
Switching output	NPN
Switching element function	N/O contact
Max. output current DC	100 mA
Voltage drop	≤3 V
Off-state current	0 mA ... 0.5 mA
Short circuit current rating	Pulsed
Operational voltage range DC	10 V ... 30 V
Reverse polarity protection	For all electrical connections
Microswitch type	P&F NBB2-V3-E0
Electrical connection	Screw terminal
Connectable nominal cross section conductor	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cable fitting	M20x1.5
Type of mounting	in accordance with VDI/VDE 3845
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Mounting position	Any
Product weight	1700 g
Housing colour	Silver
Material housing	Painted die cast aluminium
Material seals	NBR
Material shaft	High-alloy stainless steel
Material screws	High-alloy stainless steel
Material mounting bracket	High-alloy stainless steel
Material indicator	Makrolon®
Material snap ring	High-alloy stainless steel
Material disc	High-alloy stainless steel
Position indicator	Yellow/red
Setting range of angular detection	0 deg ... 90 deg
Storage temperature	-20 °C ... 60 °C
Degree of protection	IP67 NEMA 4/4X
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
LABS (PWIS) conformity	VDMA24364 zone III
Pollution degree	3