

Sensorbox SRBE-CA3-YR90-N-1-P-C2N12-C1

Part number: 3998920

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Design	Angular
Based on standard	EN 60947-5-2 ISO 5211 VDI/VDE 3845
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
Explosion protection	Class I, Div. 1 (CA) Class I, Div. 1 (US) Class I, Div. 2 (CA) Class I, Div. 2 (US) Class II, Div. 1 (CA) Class II, Div. 1 (US) Zone 1 (CA) Zone 1 (US) Zone 2 (CA) Zone 2 (US) Zone 21 (CA) Zone 21 (US)
Explosion ignition protection type for gas	AEx nA IIC T5 Gc Ex nA IIC T5 Gc
Explosion ignition protection type for dust	Ex tb IIIC T108°C Db
Explosion protection certification outside the EU	Class I, Div. 1 (CA) Class I, Div. 1 (US) Class I, Div. 2 (CA) Class I, Div. 2 (US) Class II, Div. 1 (CA) Class II, Div. 1 (US) Class III (CA) Class III (US) EPL Db (CA) EPL Db (US) EPL Gb (CA) EPL Gb (US) EPL Gc (CA) EPL Gc (US)
Certificate issuing authority	CSA 263311 Eurocert. SIL202587141
Note on materials	RoHS-compliant
Safety Integrity Level (SIL)	Safety Integrity Level 3
Measuring principle	Inductive
Ambient temperature	-20 °C ... 60 °C
Switching output	PNP
Switching element function	N/O contact

Feature	Value
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-E2
Electrical connection	10-pin Screw terminal
Connectable nominal cross section conductor	0.25 mm ² ... 2.5 mm ²
Cable fitting	1/2 NPT
Type of mounting	On flange according to ISO 5211 Via mounting bracket
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Mounting position	optional
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	PC
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