

# Sensor box SRBE-CA3-YR90-N-1-N-C2N12-C1

Part number: 3998921

FESTO



## Data sheet

Feature	Value
Type code	SRBE
Design	Rectangular
Based on norm	EN 60947-5-2 ISO 5211 VDI/VDE 3845
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 1 (CA) Zone 2 (CA) Zone 21 (CA) Zone 1 (US) Zone 2 (US) Zone 21 (US) Class I, Div. 1 (CA) Class I, Div. 2 (CA) Class II, Div. 1 (CA) Class I, Div. 1 (US) Class I, Div. 2 (US) Class II, Div. 1 (US)
ATEX category gas	II 2G
Type of ignition protection for gas	AEx d IIB T5 Gb AEx nA IIC T5 Gc Ex d IIB T5 Gb Ex nA IIC T5 Gc
ATEX category for dust	II 2D
Type of (ignition) protection for dust	AEx tb IIIC T108°C Db 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)

Feature	Value
Explosive ambient temperature	-20°C ≤ Ta ≤ +60°C
Certificate issuing authority	CSA 263311
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Safety integrity level (SIL)	SIL 2
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
Residual current	0 mA ... 0.5 mA
Short-circuit protection	Pulsed
DC operating voltage range	10 V ... 30 V
Idle current	≤15 mA
Reverse polarity protection	for all electrical connections
Electrical connection	10-pin Screw terminal
Closable nominal conductor cross-section	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cable fitting	1/2 NPT
Type of mounting	On flange as per ISO 5211 With mounting bracket
Connection for valve positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Mounting position	Any
Product weight	1700 g
Housing colour	Silver
Housing material	Die-cast aluminum
Seals material	NBR
Shaft material	High-alloy stainless steel
Material of screws	High-alloy stainless steel
Material of mounting bracket	High-alloy stainless steel
Pointer material	PC
Circlip material	High-alloy stainless steel
Disc material	High-alloy stainless steel
Position indicator	Yellow/red
Angle detection setting range	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 as per FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Contamination level	3