

sensor box SRBE-CA3-YR90-N-1-P-C2N12-C1

Part number: 3998920

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
ATEX category Gas	II 2G
Explosion ignition protection type Gas	AEx d IIB T5 Gb AEx nA IIC T5 Gc Ex d IIB T5 Gb Ex nA IIC T5 Gc
ATEX category Dust	II 2D
Explosion ignition protection type 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)
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +60°C
Certificate issuing department	CSA 263311
Materials note	Contains PWIS substances Conforms to RoHS
Safety Integrity Level (SIL)	SIL 2
Measuring principle	Inductive
Ambient temperature	-20 ... 60 °C
Switch output	PNP
Switching element function	Normally open contact
Max. output current DC	100 mA
Voltage drop	≤ 3 V
Residual current	0 ... 0.5 mA
Short circuit strength	Pulsing
Operating voltage range DC	10 ... 30 V
Idle current	≤ 15 mA

Feature	Value
Polarity protected	for all electrical connections
Electrical connection	10-pin Screwed terminal
Connectable nominal conductor cross section	0.25 ... 2.5 mm ²
Cable gland connection	1/2 NPT
Mounting type	On flange to ISO 5211 With mounting bracket
Assembly position	Any
Product weight	1,700 g
Housing colour	silver
Material housing	Aluminium die cast
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 NEMA 4/4X
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
Degree of contamination	3