

Sensor box SRBC-CA3-YR90-N-20N-ZC-C2P20-EX6

Part number: 3482807

FESTO



Data sheet

Feature	Value
Type code	SRBC
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
KC characters	KC EMC
Explosion prevention and protection	Zone 0 (ATEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 0 (IEC-EX) Zone 20 (IEC-EX) Zone 0 (IEC-EX) Zone 21 (ATEX)
ATEX category gas	II 1G
Type of ignition protection for gas	Ex ia IIC T6/T5 Ga
ATEX category for dust	II 1D
Type of (ignition) protection for dust	Ex ia IIIC Txx°C Da
Explosion protection certification outside the EU	EPL Da (IEC-EX) EPL Da (IEC-EX) EPL Ga (IEC-EX)
Explosive ambient temperature	See ATEX certificate See IECEx certificate
Max. input voltage Vi	16 V
Effective internal inductance Li	100 µH
Effective internal capacitance Ci	100 nF
Max. input parameter of intrinsically safe circuit	See IECEx certificate See ATEX certificate
Certificate issuing authority	FTZU 17 ATEX 0105X GYJ20.1409X IECEx FTZU 17.0017X
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Safety integrity level (SIL)	SIL 2
Measuring principle	Inductive
Ambient temperature	-20 °C ... 80 °C
Switching output	NAMUR
Switching element function	N/C contact
Max. switching frequency	2000 Hz

Feature	Value
Max. output current DC	3 mA
DC operating voltage range	8.2 V
Electrical connection	10-pin Screw terminal
Closable nominal conductor cross-section	0.25 mm ² ... 2.5 mm ²
Cable fitting	M20x1.5
Approved cable diameter	6 mm ... 12 mm
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	800 g
Housing colour	Gray
Housing material	Die-cast aluminum
Seals material	NBR
Shaft material	High-alloy stainless steel
Material of screws	High-alloy stainless steel
Blanking plug material	PA
Material of mounting bracket	High-alloy stainless steel
Pointer material	PC
Material for cable connector	PA
Circlip material	High-alloy stainless steel
Disc material	High-alloy stainless steel
Cover cap material	PC
Position indicator	Yellow/red
Angle detection setting range	0 deg ... 90 deg
Storage temperature	-20 °C ... 50 °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