Sensorbox
SRBC-CA3-YR90-N-20N-ZC-C2P20-EX6

Part number: 3482807



General operating condition

Data sheet

Feature	Value
Approval	RCM trademark
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
CE marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
KC mark	KC-EMV
Explosion protection	Zone 0 (ATEX) Zone 0 (CN) Zone 0 (IEC-EX) Zone 0 (UKEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 20 (CN) Zone 20 (IEC-EX) Zone 20 (UKEX) Zone 21 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 1G
Explosion ignition protection type for gas	Ex ia IIC T6...T1 Ga
ATEX category dust	II 1D
Explosion ignition protection type for dust	Ex i IIIC Txx°C Da
Explosion protection certification outside the EU	EPL Da (CN) EPL Da (GB) EPL Da (IECEx) EPL Ga (CN) EPL Ga (GB) EPL Ga (IEC-EX)
Explosion ambient temperature	See ATEX certificate See IECEx certificate
Max. input voltage Ui	16 V
Effective internal inductivity Li	100 µH
Effective internal capacitance Ci	100 nF
Max. intrinsically safe circuit input parameter	See IECEx certificate See ATEX certificate
Certificate issuing authority	FTZU 17 ATEX 0105X GYJ20.1409X IECEx FTZU 17.0017X
Note on materials	RoHS-compliant
Safety Integrity Level (SIL)	SIL 2

Feature	Value
Measuring principle	Inductive
Ambient temperature	-20 °C ... 80 °C
Switching output	NAMUR
Switching element function	N/C contact
Max. switching frequency	2000 Hz
Max. output current DC	3 mA
Operational voltage range DC	8.2 V
Microswitch type	P
Electrical connection	Screw terminal
Electrical connection 1, connection type	Terminal strip
Electrical connection 1, cable outlet	Straight
Electrical connection 1, connector system	Spring-loaded terminal
Electrical connection 1, number of connections/cores	10
Connectable nominal cross section conductor	0.25 mm² ... 2.5 mm²
Cable fitting	M20x1.5
Permissible cable diameter	6 mm ... 12 mm
Dimensions (W x L x H)	127 mm x 98 mm x 122 mm
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Mounting position	optional
Product weight	800 g
Housing colour	grey
Material housing	Die-cast aluminium
Material seals	NBR
Material shaft	High-alloy stainless steel
Material screws	High-alloy stainless steel
Material blanking plug	PA
Material mounting bracket	High-alloy stainless steel
Material indicator	PC
Material cable gland	PA
Material snap ring	High-alloy stainless steel
Material disc	High-alloy stainless steel
Material cover cap	PC
Position indicator	Yellow/red
Setting range of angular detection	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 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
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Pollution degree	3