Sensor box
SRBE-CA3-YR90-N-1-P-C2M20-EX

Part number: 3471015



General operating condition

Data sheet

Feature	Value
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 as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC acc. to UK EX instructions To UK RoHS instructions
Explosion prevention and protection	Zone 1 (ATEX) Zone 1 (BR) Zone 1 (CN) Zone 1 (IEC-EX) Zone 1 (KR) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (BR) Zone 21 (CN) Zone 21 (IEC-EX) Zone 21 (IN) Zone 21 (KR) Zone 21 (UKEX) Zone 22 (ATEX)
ATEX category gas	II 2G
Type of ignition protection for gas	Ex db IIC T6 Gb
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex tb IIIC T...°C Db
Explosion protection certification outside the EU	EPL Db (BR) EPL Db (CN) EPL Db (GB) EPL Db (IEC-EX) EPL Db (IN) EPL Db (KR) EPL Gb (BR) EPL Gb (CN) EPL Gb (GB) EPL Gb (IEC-EX) EPL Gb (IN) EPL Gb (KR)
Explosive ambient temperature	-20°C <= Ta <= +60°C
Max. surface temperature	61 °C

Feature	Value
Certificate issuing authority	18-GA4BO-0516X 18-GA4BO-0517X DNV 16.0067X FTZU 15 ATEX 0095X GYJ16.1497X GYJ23.1167X IECEx FTZU 15.0014X KCC-18-GA4BO
Note on materials	RoHS-compliant
Safety integrity level (SIL)	SIL 2
Measuring principle	Inductive
Ambient temperature	-20 °C ... 60 °C
Switching output	PNP
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
Microswitch type	P&F NBB2-V3-E2
Electrical connection	10-pin Screw terminal
Closable nominal conductor cross-section	0.25 mm² ... 2.5 mm²
Cable fitting	M20x1.5
Type of mounting	as per VDI/VDE 3845
Connection point for 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, painted
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
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
LABS (PWIS) conformity	VDMA24364 zone III
Contamination level	3

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