

Sensorbox SRBG-C1-N-20N-ZC-M12-EX5

Part number: 3568057

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Design	Square
Based on standard	EN 60947-5-6 VDI/VDE 3845
Approval	RCM c UL us (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Explosion protection	Zone 0 (ATEX) Zone 0 (CN) Zone 0 (UKEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 20 (CN) 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 ia IIIC T200 135°C Da
Explosion protection certification outside the EU	EPL Da (CN) EPL Da (GB) EPL Ga (CN) EPL Ga (GB)
Explosion ambient temperature	See ATEX certificate See IECEx certificate
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	CML22UKEX2263X
Note on materials	RoHS compliant
Safety Integrity Level (SIL)	SIL 2
Measuring principle	Inductive
Ambient temperature	-25 °C ... 100 °C
Switching output	NAMUR
Switching element function	N/C contact
Max. switching frequency	3000 Hz

Feature	Value
Max. output current DC	3 mA
Short circuit current rating	Yes
Operational voltage range DC	8.2 V
Reverse polarity protection	For all electrical connections
Electrical connection input	M12x1
Electrical connection 1, connection type	Plug
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Round
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	4
Electrical connection 1, connection pattern	00995600
Type of mounting	Threaded
Mounting position	Any
Product weight	70 g
Material housing	PBT
Material screws	High-alloy stainless steel
Material fitting	Nickel-plated die-cast zinc
Switching status indication	Yellow LED
Storage temperature	-40 °C ... 100 °C
Degree of protection	IP67
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
LABS (PWIS) conformity	VDMA24364 zone III
Pollution degree	3