

# Sensorbox SRBG-C1-N-20N-ZC-C2-C2-EX5

Part number: 3568167

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 (CN) Zone 20 (UKEX)
ATEX category gas	II 1G
Explosion ignition protection type for gas	Ex ia IIC T6 ...T1 Ga
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
Max. output current DC	3 mA
Short circuit current rating	Yes
Operational voltage range DC	8.2 V

Feature	Value
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Terminal strip
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Round
Electrical connection 1, connector system	Spring-loaded terminal
Electrical connection 1, number of connections/cores	10
Electrical connection 1, connection pattern	00995598
Connectable nominal cross section conductor	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cable fitting	M20x1.5
Type of mounting	Threaded
Mounting position	Any
Product weight	170 g
Material housing	PBT
Material screws	High-alloy stainless steel
Switching status indication	Yellow LED
Status indication	LED yellow = valve switching status
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