

Sensor box SRBG-C1-N-20N-ZC-C2-C2-EX5

Part number: 3568167

FESTO



Data sheet

Feature	Value
Type code	SRBG
Effective internal inductance Li	100 µH
Max. input parameter of intrinsically safe circuit	See IECEx certificate See ATEX certificate
Effective internal capacitance Ci	100 nF
Design	Rectangular
Based on norm	EN 60947-5-6 VDI/VDE 3845
Certification	RCM compliance mark c UL us (OL)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
Explosion prevention and protection	Zone 0 (ATEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 0 (IEC-EX)
ATEX category gas	II 1G
Type of ignition protection for gas	Ex ia IIC T6...T1 Ga
Explosion protection certification outside the EU	EPL Ga (IEC-EX)
Explosive ambient temperature	See ATEX certificate See IECEx certificate
Certificate issuing authority	IECEx TUN 18.0003X German Technical Control Board (TÜV) 16 ATEX 174269 X
Note on materials	Contains paint-wetting impairment substances 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 protection	yes
DC operating voltage range	8.2 V
Reverse polarity protection	for all electrical connections
Electrical connection, input	Spring-loaded terminal
Electrical connection, output	Spring-loaded terminal

Feature	Value
Cable fitting	M12x1.5 M20x1.5
Closable nominal conductor cross-section	0.2 mm ² ... 2.5 mm ²
Mounting position	Any
Product weight	170 g
Housing material	PBT
Material of screws	High-alloy stainless steel
Switching status indication	LED yellow
Status indicator	LED yellow = pneumatic valve switching status
Storage temperature	-40 °C ... 100 °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
Contamination level	3