## Sensor box SRBG-C1-N-1-P-M12 Part number: 3568055

**FESTO** 



## **Data sheet**

Based on norm  EN 60947-5-2 VDI/VDE 3845  Certification  ERM compilaince mark cUL us (OL) As per EU EMC directive As per EU RoHS directive As per EU RoHS directive IN OUK instructions for EMC TO UK RoHS instructions  KC characters KC EMC Note on materials RoHS-compilant Inductive Ambient temperature PNP Switching element function N/O contact Max. switching frequency Soults directive DO MA Assistant DC  Max. output current DC DO Deparating voltage arage DC operating voltage arage DC operating voltage arage DC operating voltage range DC operating voltage range DC operating voltage range DC operating voltage range DC operating voltage for in able outlet Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires Availage and per Servey Mounting position Any Product weight Any Product weight Any Pooluct weight PO ge Ready status indication LED yellow  EVED yellow  EVED yellow  EVENT Statis indication LED yellow  EVENT STATES  EVENT STATES  As per EU EMC directive As per EU RoHS directive As per EU RoHS directive	Feature	Value
Certification RCM compliance mark cUL us (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU EMC directive As per EU EMC directive UKCA marking (see declaration of conformity) TO UK instructions for EMC TO UK RoHS instructions KC Characters KC EMC Note on materials Reasuring principle Inductive Ambient temperature PNP Switching output PNP Switching output PNP Switching frequency So0 Hz Max. output current DC 100 mA Voltage drop 33 V Residual current On m 0.5 mA Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Idle current Reverse polarity protection Felectrical connection 1, connection type Electrical connection 1, deble outlet Electrical connection 1, able outlet Electrical connection 1, connection technology Mnuterial of Screws Mounting material Mounting position Pulsed Mounting position Any Product weight 70 g High-alloy stainless steel Ready status indication LED yellow Welching status indication LED yellow	Design	Rectangular
CUL us (01)  CE marking (see declaration of conformity)  As per EU RoHS directive As per EU RoHS directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC TO UK ROHS instructions  KC EMC  Note on materials ROHS-compliant  Measuring principle Inductive Ambient temperature -25 °C 70 °C  Switching output PNP  Switching lement function N/O contact  Max. switching frequency 500 Hz  Max. output current DC 100 mA  Voltage drop -33 V  Residual current O mA 0.5 mA  Short-circuit protection DC operating voltage range 10 V 30 V  dele current -25 mA  Reverse polarity protection For all electrical connection 1, cable outlet Electrical connection 1, connection type Electrical connection 1, design Electrical connection 1, design Round Electrical connection 1, connection pattern Vippe of mounting Mounting position Any  Product weight To g  Helb-alloy stainless steel  Ready status indication  LED green  Switching status indication	Based on norm	
As per EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions KC characters KC EMC Note on materials ROHS-compliant Measuring principle Inductive Ambient temperature 25 °C 70 °C Switching output PNP Switching output PNP Switching element function N/O contact Max. switching frequency 500 Hz Max. output current DC 100 mA Voltage drop 33 V Residual current O mA 0.5 mA Short-circuit protection Pulsed DC operating voltage range 10 V 30 V dide current 225 mA Reverse polarity protection Flug Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, connection pattern O0995597 Type of mounting Mnunting position Any Product weight Any Product weight Any High-alloy stainless steel Ready status indication LED yellow Witching status indication LED yellow Witching status indication LED yellow	Certification	· ·
To UK ROHS instructions  KC Characters  KC EMC  Note on materials  Measuring principle  Ambient temperature  -25 °C 70 °C  Switching output  PNP  Switching element function  Max. switching frequency  Max. output current DC  100 mA  Note on materials  RohS-compliant  Max. witching frequency  500 Hz  Max. output current DC  100 mA  Notage drop  83 V  Residual current  0 mA 0.5 mA  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Idle current  825 mA  Reverse polarity protection  For all electrical connection 1, connection type  Electrical connection 1, connection type  Electrical connection 1, design  Electrical connection 1, design  Electrical connection 1, dispign  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Threaded  Mounting position  Any  Product weight  70 g  High-alloy stainless steel  Ready status indication  LED green  Switching status indication  LED green  Switching status indication  LED green  Switching status indication	CE marking (see declaration of conformity)	
Note on materials  Reasuring principle Inductive Ambient temperature -25 °C 70 °C Switching output PNP Switching element function Max. switching frequency Switching element function Max. switching frequency So0 Hz Max. output current DC 100 mA Switching frequency So1 Max. output current DC 100 mA Switching frequency So2 WA Switching frequency So3 V Residual current OmA 0.5 mA Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Switching frequency Reverse polarity protection Ful electrical connection 1, connection type Plug Electrical connection 1, connection type Plug Electrical connection 1, design Round Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection for input 1, connection pattern O9995597 Type of mounting Mounting position Product weight Housing material PBT Material of screws High-alloy stainless steel Ready status indication LED green Switching status indication LED green Switching status indication LED green	UKCA marking (see declaration of conformity)	
Measuring principle Ambient temperature -25 °C 70 °C Switching output PNP Switching element function N/O contact Max. switching frequency 500 Hz Max. output current DC 100 mA Wax. output current DC Voltage drop 43 V Residual current DC O mA 0.5 mA Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Reverse polarity protection Felectrical connection 1, connection type Felectrical connection 1, connection type Felectrical connection 1, cable outlet Straight Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection frinput 1, connection pattern Operating position Product weight Housing material Material of screws Ready status indication LED green Switching status indication LED green Switching status indication LED gellow	KC characters	KC EMC
Ambient temperature -25 °C 70 °C Switching output PNP Switching element function N/O contact Max. switching frequency 500 Hz Max. output current DC 100 mA Voltage drop Residual current O mA 0.5 mA Short-circuit protection Pulsed DC operating voltage range 10 v 30 V Reverse polarity protection For all electrical connection 1, connection type Plug Electrical connection 1, cable outlet Straight Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires Electrical connection 1, number of pins/wires Electrical connection 1 friend technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1 friend technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1 friend technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1 friend from the fins friend technology Mounting position Any Product weight 70 g Housing material PBT Material of screws Ready status indication LED green Switching status indication LED green Switching status indication LED yellow	Note on materials	RoHS-compliant
Switching output  Switching element function  Max. switching frequency  500 Hz  Max. output current DC  100 mA  Voltage drop  Residual current  0 mA 0.5 mA  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Reverse polarity protection  Felectrical connection 1, connection type  Electrical connection 1, cable outlet  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  Electrical connection for input 1, connection pattern  Nyoe of mounting  Mounting position  Por general  Any  Product weight  Any  Product weight  Metals indication  Electrics  Ready status indication  LED green  Switching status indication  LED green  Switching status indication	Measuring principle	Inductive
Switching element function  Max. switching frequency  Max. output current DC  100 mA  Voltage drop  Residual current  O mA 0.5 mA  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Reverse polarity protection  Felectrical connection 1, connection type  Electrical connection 1, cable outlet  Electrical connection 1, dasign  Electrical connection 1, dasign  Reverse polarity one output for the horizontal prins/wires  4  Electrical connection 1, connection type  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Mounting position  Any  Product weight  To g  Housing material  PBT  Material of screws  High-alloy stainless steel  LED green  Switching status indication  LED yellow	Ambient temperature	-25 °C 70 °C
Max. switching frequency  Max. output current DC  100 mA  Voltage drop  Residual current  O mA 0.5 mA  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Addle current  Reverse polarity protection  Flectrical connection 1, connection type  Electrical connection 1, connection type  Electrical connection 1, design  Electrical connection 1, design  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 7, inumber of pins/wires  4  Electrical connection 6 input 1, connection pattern  O0995597  Type of mounting  Mounting position  Any  Product weight  To g  Housing material  PBT  Material of screws  Ready status indication  LED green  Switching status indication  LED yellow	Switching output	PNP
Max. output current DC  Voltage drop  Residual current  OmA 0.5 mA  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Idle current  Reverse polarity protection  Electrical connection 1, connection type  Electrical connection 1, cable outlet  Electrical connection 1, connection 1, connection type  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  O0995597  Type of mounting  Mounting position  Any  Product weight  Housing material  Material of screws  Ready status indication  LED green  Switching status indication  LED yellow	Switching element function	N/O contact
Avoltage drop  Residual current  O mA 0.5 mA  Short-circuit protection  Pulsed  DC operating voltage range  10 V 30 V  Idle current  Reverse polarity protection  For all electrical connections  Electrical connection 1, connection type  Electrical connection 1, cable outlet  Electrical connection 1, connection technology  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection for input 1, connection pattern  O0995597  Type of mounting  Mounting position  Any  Product weight  Housing material  Material of screws  Ready status indication  LED green  Switching status indication  LED yellow	Max. switching frequency	500 Hz
Residual current 0 m A 0.5 m A Short-circuit protection Pulsed DC operating voltage range 10 V 30 V Idle current \$25 m A Reverse polarity protection for all electrical connections Electrical connection 1, connection type Plug Electrical connection 1, cable outlet Straight Electrical connection 1, design Round Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101 Electrical connection 1, number of pins/wires 4 Electrical connection for input 1, connection pattern 00995597 Type of mounting Threaded Mounting position Any Product weight 70 g Housing material PBT Material of screws Ready status indication LED green Switching status indication LED yellow	Max. output current DC	100 mA
Short-circuit protection  DC operating voltage range  10 V 30 V  25 mA  Reverse polarity protection  Electrical connection 1, connection type  Electrical connection 1, cable outlet  Electrical connection 1, design  Electrical connection 1, connection technology  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Mounting position  Any  Product weight  Housing material  Material of screws  Ready status indication  LED green  Switching status indication  LED yellow	Voltage drop	≤3 V
DC operating voltage range  10 V 30 V  Idle current  Reverse polarity protection  Flectrical connection 1, connection type  Electrical connection 1, cable outlet  Electrical connection 1, design  Electrical connection 1, connection technology  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  O0995597  Type of mounting  Mounting position  Any  Product weight  Housing material  Material of screws  High-alloy stainless steel  Ready status indication  LED green  Switching status indication  LED yellow	Residual current	0 mA 0.5 mA
Idle current  Reverse polarity protection  For all electrical connections  Electrical connection 1, connection type  Flug  Electrical connection 1, cable outlet  Electrical connection 1, design  Round  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Threaded  Mounting position  Any  Product weight  Housing material  Material of screws  High-alloy stainless steel  EReady status indication  LED green  Switching status indication  LED yellow	Short-circuit protection	Pulsed
Reverse polarity protection for all electrical connections  Electrical connection 1, connection type Plug  Electrical connection 1, cable outlet Straight  Electrical connection 1, design Round  Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires 4  Electrical connection for input 1, connection pattern 00995597  Type of mounting Threaded  Mounting position Any  Product weight 70 g  Housing material PBT  Material of screws High-alloy stainless steel  Ready status indication LED green  Switching status indication LED yellow	DC operating voltage range	10 V 30 V
Electrical connection 1, connection type  Electrical connection 1, cable outlet  Electrical connection 1, design  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Threaded  Mounting position  Any  Product weight  70 g  Housing material  PBT  Material of screws  Ready status indication  LED green  Switching status indication  LED yellow	Idle current	≤25 mA
Electrical connection 1, cable outlet  Electrical connection 1, design  Round  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Threaded  Mounting position  Any  Product weight  70 g  Housing material  PBT  Material of screws  High-alloy stainless steel  LED green  Switching status indication  LED yellow	Reverse polarity protection	for all electrical connections
Electrical connection 1, design  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Threaded  Mounting position  Any  Product weight  70 g  Housing material  PBT  Material of screws  High-alloy stainless steel  LED green  Switching status indication  LED yellow	Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101  Electrical connection 1, number of pins/wires  4  Electrical connection for input 1, connection pattern  00995597  Type of mounting  Threaded  Mounting position  Any  Product weight  70 g  Housing material  PBT  Material of screws  High-alloy stainless steel  LED green  Switching status indication  LED yellow	Electrical connection 1, cable outlet	Straight
Electrical connection 1, number of pins/wires  Electrical connection for input 1, connection pattern  Type of mounting  Mounting position  Any  Product weight  Housing material  Material of screws  Ready status indication  Electrical connection 1, number of pins/wires  4  00995597  Threaded  Any  Product weight  70 g  High-alloy stainless steel  LED green  Switching status indication  LED yellow	Electrical connection 1, design	Round
Electrical connection for input 1, connection pattern  Type of mounting  Threaded  Mounting position  Any  Product weight  To g  Housing material  Material of screws  High-alloy stainless steel  Ready status indication  LED green  Switching status indication  LED yellow	Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Type of mounting Threaded Mounting position Any Product weight 70 g Housing material PBT Material of screws High-alloy stainless steel Ready status indication LED green Switching status indication LED yellow	Electrical connection 1, number of pins/wires	4
Mounting position Any Product weight 70 g Housing material PBT Material of screws High-alloy stainless steel Ready status indication LED green Switching status indication LED yellow	Electrical connection for input 1, connection pattern	00995597
Product weight 70 g Housing material PBT Material of screws High-alloy stainless steel Ready status indication LED green Switching status indication LED yellow	Type of mounting	Threaded
Housing material PBT  Material of screws High-alloy stainless steel  Ready status indication LED green  Switching status indication LED yellow	Mounting position	Any
Material of screws High-alloy stainless steel Ready status indication LED green Switching status indication LED yellow	Product weight	70 g
Ready status indication LED green Switching status indication LED yellow	Housing material	PBT
Switching status indication LED yellow	Material of screws	High-alloy stainless steel
	Ready status indication	LED green
Storage temperature -25 °C 70 °C	Switching status indication	LED yellow
	Storage temperature	-25 °C 70 °C

Feature	Value
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