

# Sensorbox SRAP-M-CA1-BB270-1-A-TP20-EX2

Part number: 568237

FESTO



 [General operating condition](#)

## Data sheet

Feature	Value
Design	Angular
Based on standard	VDI/VDE 3845 (NAMUR)
Approval	RCM trademark c UL us - Recognized (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 instructions for EMC To UK EX instructions To UK RoHS instructions
Explosion protection	Zone 2 (ATEX) Zone 2 (UKEX) Zone 22 (ATEX) Zone 22 (UKEX)
ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex ec IIC T5 Gc X
ATEX category dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIC T90°C Dc X
Explosion protection certification outside the EU	EPL Dc (GB) EPL Gc (GB)
Explosion ambient temperature	-20 °C ≤ Ta ≤ +80 °C
Note on materials	RoHS-compliant
Measured variable	Rotation angle
Measuring principle	Magnetic Hall
Ambient temperature	-20 °C ... 80 °C
Analogue output	4 - 20 mA
Repetition accuracy analogue output in ± °	1 deg
Short circuit current rating	yes
Overload protection	Available
Operational voltage range DC	15 V ... 30 V
No-load supply current	12 mA ... 20 mA
Reverse polarity protection	For all electrical connections
Electrical connection	9-pin Screw terminal Plug-in
Connectable nominal cross section conductor	2.5 mm <sup>2</sup>
Cable fitting	M20
Permissible cable diameter	5 mm ... 13 mm
Max. cable length	30 m

<b>Feature</b>	<b>Value</b>
Mounting position	optional
Product weight	1000 g
Material housing	Wrought aluminium alloy
Position indicator	Blue/black
Setting options	Teach-in Teach-in via electrical connection
Setting range of angular detection	0 deg ... 270 deg
Degree of protection	IP65
Insulation voltage	50 V
Immunity to surge	0.8 kV
Protection class	III
Corrosion resistance class CRC	3 - high corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Pollution degree	3