

# Limit switch box SRBC-CA3-YR90-N-1-P-M12

Part number: 8137101

FESTO



 General operating condition

## Data sheet

Feature	Value
Approval	RCM c CSA us (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
KC mark	KC-EMV
Certificate issuing authority	Eurocert. SIL202587141
Note on materials	RoHS compliant
Safety Integrity Level (SIL)	SIL 3
Measuring principle	Inductive
Ambient temperature	-20 °C ... 80 °C
Switching output	PNP
Switching element function	N/O contact
Max. switching frequency	1000 Hz
Max. output current DC	100 mA
Voltage drop	≤3 V
Off-state current	0 mA ... 0.5 mA
Short circuit current rating	Pulsed
Operational voltage range DC	10 V ... 30 V
No-load supply current	≤15 mA
Reverse polarity protection	For all electrical connections
Microswitch type	P&F NBB2-V3-E2
Electrical connection	M12
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	8
Electrical connection 1, connection pattern	00995600
Connectable nominal cross section conductor	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Permissible cable diameter	5 mm ... 13 mm
Dimensions (W x L x H)	127 mm x 111 mm x 122 mm
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Mounting position	Any
Product weight	800 g

Feature	Value
Housing colour	Grey
Material housing	Die-cast aluminium
Material seals	NBR
Material shaft	High-alloy stainless steel
Material screws	High-alloy stainless steel
Material mounting bracket	High-alloy stainless steel
Material snap ring	High-alloy stainless steel
Material disc	High-alloy stainless steel
Material cover cap	Makrolon®
Material fitting	Brass, nickel-plated
Position indicator	Yellow/red
Setting range of angular detection	0 deg ... 90 deg
Storage temperature	-20 °C ... 50 °C
Degree of protection	IP66 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
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Pollution degree	3