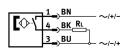
Proximity sensor SME-10-SL-LED-24 Part number: 173212





General operating condition

Data sheet

Conforms to standardEN 60947-5-2Symbol00991619CertificationRCM compliance markEf marking (see declaration of conformity)As per EU RMG directive As per EU RMS directiveJKCA marking (see declaration of conformity)To UK instructions for EMC To UK instructionsNote on materialsRoHS compliantApplication noteSupport / actuator-sensor overview "The right sensor for the actuator" Measuring principleMeasuring principleMagnetic reedAmbient temperature-20 °C 70 °CSwitching outputContact-based, bipolarSwitching outputContact-based, bipolarSwitching output500 HzMax. switching frequency500 HzMax. switching frequency00 mAMax. switching requency00 mAMax. switching requency0 VNot availableNot availableOperating voltage range12 V 27 VCoperating voltage range12 V 27 VSeveretion 1, connection technologyM&X AtA-coded as per EN 61076-2-104Electrical connection 1, connection technologyM&X AtA-coded as per EN 61076-2-104Electrical connection 1, connection pattern00991155Connection outlet orientationLongitudinalCable ength0.3 mColor cable sheathGray	Feature	Value
Symbol 00991619 Certification RCM compliance mark ET marking (see declaration of conformity) As per FU ENC directive ASP EFU ROHS directive Asper FU ROHS directive JKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions ROHS-compliant Application note Support / actuator-sensor overview "The right sensor for the actuator" Weasured variable Position Measuring principle Magnetic reed Ambient temperature 20 °C 70 °C Repetition accuracy 0.2 mm Switching element function N/O contact Din time s0.6 ms Switching frequency 500 Hz Max. switching frequency 500 Hz Max. switching requency 00 V Max. switching reage AC 12 V 27 V Orderating voltage range 12 V 27 V Coperating voltage range AC 2 able with plug Electrical connection 1, connection technology Msx1 A-coded as per EN 61076-2-104 Electrical connection 1, nonnection technology Msx1 A-coded as per EN 61076-2-104	Design	for round slot
ControlRCM compliance mark2E marking (see declaration of conformity)As per FU EMC directive As per FU RoHS directiveJKCA marking (see declaration of conformity)To UK histructions for EMC To UK koHS directiveJKCA marking (see declaration of conformity)To UK koHS directiveJKCA marking (see declaration of conformity)To UK koHS directiveJKCA marking (see declaration of conformity)To UK koHS directiveVote on materialsRoHS-compliantApplication noteSupport / actuator-sensor overview "The right sensor for the actuator"Weasured variablePositionMeasuring principleMagnetic reedAmbient temperature-20 °C 70 °CRepetition accuracy0.2 mmSwitching outputContact-based, bipolarSwitching outputContact-based, bipolarSwitching frequency500 HzAwa. switching frequency500 HzMax. switching requency00 VaShort-circuit protectionNot availableOperating voltage range12 V 27 VOc capating voltage range12 V 27 VCoperating voltage range12 V 27 VReverse polarity protectionnoDescription outputCable with plugElectrical connection 1, connection technologyMax1-coded as per EN 61076-2-104Electrical connection 1, nonnection pattern00991155Connection outlet orientationLongtudinalColor cable sheath0.3 mColor cable sheathGary	Conforms to standard	EN 60947-5-2
Emarking (see declaration of conformity) As per EU EMC directive As per EU ROHS directive As per EU ROHS directive JKCA marking (see declaration of conformity) To UK konst instructions for EMC to UK konst instructions Note on materials RoHS-compliant Application note Support / actuator-sensor overview "The right sensor for the actuator" Weasuring principle Magnetic reed Ambient temperature -20 °C 70 °C Repetition accuracy 0.2 mm Switching output Contact-based, bipolar Switching lement function N/O contact On time s0.6 ms Switching requency 500 Hz Max. switching frequency 500 Hz Max. switching requency 0.0 mA Max. switching requency 0 V Short-circuit protection no Departing voltage range AC 12 V 27 V Oc oparting voltage range AC 12 V 27 V Reverse polarity protection no Identical connection technology Max1 A-coded as per EN 61076-2-104 Electrical connection 1, connection technology Max1 A-coded as per EN 61076-2-104 Electrical connection input 1, connection pattern 00991155	Symbol	00991619
As per EU ROHS directive JKCA marking (see declaration of conformity) To UK instructions for EMC Vote on materials ROH5-compliant Application note Support / actuator-sensor overview "The right sensor for the actuator" Weasured variable Position Weasuring principle Magnetic reed Ambient temperature -20 °C 70 °C Repetition accuracy 0.2 mm Switching output Contact-based, bipolar Switching requents s0.6 ms Switching requency 500 Hz Wax. switching frequency 00 mA Wax. switching requency DC 1W Voltage drop 0 V Short-circuit protection no Operating voltage range AC 12 V 27 V Co operating voltage range AC 12 V 27 V Co operating voltage range AC Cable with plug Electrical connection 1, connection technology Max1-coded as per EN 61076-2-104 Electrical connection 1, connection pattern 00991155 Connection outlet orientation 0.01111all Color cable sheath 0.3 m	Certification	RCM compliance mark
Note on materials RoHS-compliant Application note Support / actuator-sensor overview "The right sensor for the actuator" Weasuring principle Magnetic reed Witching output Contract-based, bipolar Switching output Contact-based, bipolar Switching element function N/O contact On time s0.6 ms Switching requency 500 Hz Max. switching requency 500 Hz Max. switching requency 500 Hz Max. switching requency 0.0 mA Max. switching requency 500 Hz Voltage drop 0 V Short-circuit protection no mA Operating voltage range 12 V 27 V Oc operating voltage range 12 V 27 V Co operating voltage range 12 V 27 V Reverse polarity protection no Reverse polarity protection 109991155 Connection outlet orientation 109991155 Connection outlet orientation Longiturinal Cable length 0.3 m	CE marking (see declaration of conformity)	
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Non-Section Weasured variable Position Measuring principle Magnetic reed Ambient temperature -20 °C 70 °C Repetition accuracy 0.2 mm Switching output Contact-based, bipolar Switching element function N/O contact On time s0.6 ms Switching requency 500 Hz Wax. switching frequency 500 Hz Wax. switching capacity DC 1 W /oltage drop 0 V Short-circuit protection no Dorerating voltage range 12 V 27 V Occeptating voltage range 12 V 27 V Coperating voltage range 2 dele with plug Electrical connection 1, connection type Cable with plug Electrical connection 1, number of pins/wires 3 Electrical connection 1, number of pins/wires 3 Electrical connection or input 1, connection pattern 009991155 Connection outlet orientation Longitudinal Cable length 0.3 m	Note on materials	RoHS-compliant
Measuring principleMagnetic reedAmbient temperature-20 °C 70 °CRepetition accuracy0.2 mmSwitching outputContact-based, bipolarSwitching element functionN/O contactImme\$0.6 msSwitch-off time\$0.05 msSwitching requency500 HzMax. switching frequency500 HzMax. sutching requency100 mAMax. switching requency0 VShort-circuit protectionnoOutge dop0 VShort-circuit protectionNot availableOperating voltage range AC12 V 27 VCoperating voltage range12 V 27 VCoperating voltage range12 V 27 VCoperation 1, connection typeCable with plugElectrical connection 1, connection technologyMax1A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection 1, number of pins/wires3Electrical connection 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Application note	Support / actuator-sensor overview "The right sensor for the actuator"
Ambient temperature-20 °C 70 °CRepetition accuracy0.2 mmSwitching outputContact-based, bipolarSwitching element functionN/O contactOn time\$0.6 msSwitch-off time\$0.05 msWax. switching frequency500 HzMax. output current100 mAWax. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoDoverload protectionNot availableOperating voltage range AC12 V 27 VOC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Measured variable	Position
Repetition accuracy0.2 mmSwitching outputContact-based, bipolarSwitching element functionN/O contactOn time<0.6 ms	Measuring principle	Magnetic reed
Switching outputContact-based, bipolarSwitching element functionN/O contactSmitching element function\$0.6 msSwitch-off time\$0.05 msSwitch-off time\$0.05 msMax. switching frequency500 HzMax. output current100 mAMax. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoDerating voltage range12 V 27 VDC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Ambient temperature	-20 °C 70 °C
Switching element functionN/O contactOn time\$0.6 msSwitch-off time\$0.05 msSwitch-off time\$0.05 msMax. switching frequency500 HzMax. output current100 mAMax. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoOverload protectionNot availableOperating voltage range12 V 27 VOC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, connection pattern00991155Connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Repetition accuracy	0.2 mm
On time\$0.6 msSwitch-off time\$0.05 msMax. switching frequency500 HzMax. output current100 mAMax. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoDoverload protectionNot availableOperating voltage range AC12 V 27 VOC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Switching output	Contact-based, bipolar
Switch-off time\$0.05 msWax. switching frequency500 HzWax. output current100 mAWax. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoDoverload protectionNot availableOperating voltage range12 V 27 VCo perating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Switching element function	N/O contact
Max. switching frequency500 HzMax. output current100 mAMax. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoDoverload protectionNot availableOperating voltage range AC12 V 27 VOC operating voltage range12 V 27 VDC operating voltage rangeCable with plugElectrical connection 1, connection typeCable with plugElectrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	On time	≤0.6 ms
Max. output current100 mAMax. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoDereload protectionNot availableOperating voltage range AC12 V 27 VOC operating voltage range12 V 27 VOC operating voltage range12 V 27 VDC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Switch-off time	≤0.05 ms
Max. switching capacity DC1 WVoltage drop0 VShort-circuit protectionnoDverload protectionNot availableDerating voltage range AC12 V 27 VDC operating voltage range12 V 27 VElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern009991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Max. switching frequency	500 Hz
Voltage drop0 VShort-circuit protectionnoOverload protectionNot availableOperating voltage range AC12 V 27 VOC operating voltage range12 V 27 VOC operating voltage range12 V 27 VDC operating voltage rangeNot availableDC operating voltage range12 V 27 VDC operating voltage rangeNot availableDC operating voltage rangeNot availableDC operating voltage rangeNot availableDC operating voltage range12 V 27 VDC operating voltage rangeNot availableDC operating voltage rangeNot availableDC operating voltage rangeNot availableElectrical connection 1, connection typeCable with plugElectrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Max. output current	100 mA
Short-circuit protectionnoOverload protectionNot availableOperating voltage range AC12 V 27 VOC operating voltage range12 V 27 VDC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Max. switching capacity DC	1 W
Deverload protectionNot availableOperating voltage range AC12 V 27 VOC operating voltage range12 V 27 VDeverse polarity protectionnoReverse polarity protection 1, connection typeCable with plugElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Voltage drop	0 V
Deperating voltage range AC12 V 27 VDC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Short-circuit protection	no
DC operating voltage range12 V 27 VReverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Overload protection	Not available
Reverse polarity protectionnoElectrical connection 1, connection typeCable with plugElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Operating voltage range AC	12 V 27 V
Electrical connection 1, connection typeCable with plugElectrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	DC operating voltage range	12 V 27 V
Electrical connection 1, connection technologyM8x1 A-coded as per EN 61076-2-104Electrical connection 1, number of pins/wires3Electrical connection for input 1, connection pattern00991155Connection outlet orientationLongitudinalCable length0.3 mColor cable sheathGray	Reverse polarity protection	no
Electrical connection 1, number of pins/wires 3 Electrical connection for input 1, connection pattern 00991155 Connection outlet orientation Longitudinal Cable length 0.3 m Color cable sheath Gray	Electrical connection 1, connection type	Cable with plug
Electrical connection for input 1, connection pattern 00991155 Connection outlet orientation Longitudinal Cable length 0.3 m Color cable sheath Gray	Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Connection outlet orientation Longitudinal Cable length 0.3 m Color cable sheath Gray	Electrical connection 1, number of pins/wires	3
Cable length 0.3 m Color cable sheath Gray	Electrical connection for input 1, connection pattern	00991155
Color cable sheath Gray	Connection outlet orientation	Longitudinal
,	Cable length	0.3 m
Material of cable sheath TPE-U(PUR)	Color cable sheath	Gray
	Material of cable sheath	TPE-U(PUR)

FESTO

Feature	Value
Type of mounting	Clamped in round slot Can be inserted in slot lengthwise
Tightening torque	0.1 Nm
Mounting position	Any
Product weight	5 g
Housing colour	Black
Housing material	Brass, nickel-plated PPS TPE-U(PU) High-alloy stainless steel
Switching status indication	LED yellow
Ambient temperature with flexible cable installation	-5 °C 70 °C
Degree of protection	IP65 IP67
Insulation voltage	50 V
Surge resistance	0.8 kV
LABS (PWIS) conformity	VDMA24364-B2-L
Contamination level	3