

# LINECOD

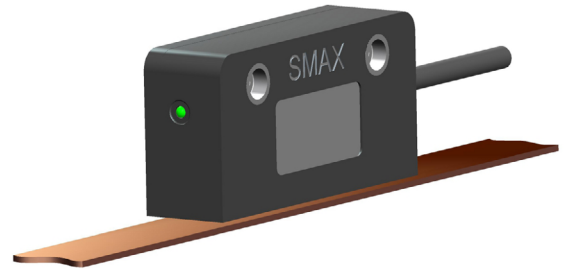
Absolute magnetic sensor

Series

SMAX



- Cost effective non-contacting absolute sensor
- IP69K on request, IP68 protection degree for harsh environments
- Modbus/RS485, SSI & Analogue output
- Programmable resolution
- Self-diagnostics on tape distance & integrity
- Measuring length up to 600 mm (1200 mm on request)



SMAX

## ENVIRONMENTAL SPECIFICATIONS

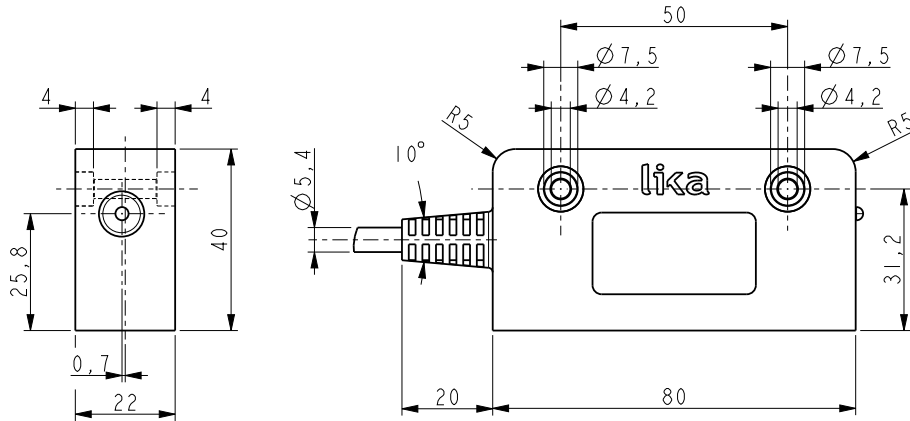
Protection:	IP68
Operating temperature range:	-25°C +85°C (-13°F +185°F)
Storage temperature range:	-40°C +100°C (-40°F +212°F)

## MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Housing material:	Macromelt OM 646-EN
Electrical connections:	M12 inline plug or cable output 1 m
Gap between sensor-magnetic tape:	0,1 ÷ 2,0 mm
Travel speed:	5 m/s max. (mechanical)
Option:	• additional cable

## ELECTRICAL SPECIFICATIONS

Resolution:	Programmable or fix 1.25, 1.0, 0.5, 0.1 mm
Counting frequency:	50 kHz
Sensor accuracy:	Modbus, SSI: see magnetic tape MTAX Analogue output: 10 bit conversion
Repeat accuracy:	± 1 increment
Output circuits:	Analogue 4-20mA, 0-10V, Modbus/RS485, SSI
Power supply:	Modbus, SSI: +10Vdc +30Vdc Analogue output: +13Vdc +30Vdc
Consumption:	1 W max.
Functions:	Programmable resolution (only Modbus, Analogue) Preset Counting direction
Protection:	against inversion of polarity and short circuit
EMC:	acc. to EN 61000-6-2 level 3



SMAX

Order code sensor - SSI output

SMAX	-	XX Ⓐ	-	XXXX Ⓑ	-	XXX Ⓒ	-	/Sxxx Ⓓ
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<p>Ⓐ OUTPUT CIRCUITS</p> <p>BG = Binary, SSI MSB aligned</p> <p>GG = Gray, SSI MSB aligned</p>	<p>Ⓑ RESOLUTION</p> <p>1250 = 1,25 mm</p> <p>1000 = 1,0 mm</p> <p>500 = 0,5 mm</p> <p>100 = 0,1 mm</p>	<p>Ⓒ CONNECTIONS</p> <p>L1 = cable output 1 m (standard)</p> <p>Lx = cable output x m</p> <p>M0,5 = 0,5 m cable + M12 8 pin inline plug</p> <p>M2 = 2 m cable + M12 8 pin inline plug</p>	<p>Ⓓ CUSTOM VERSION</p>
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Order code sensor - Modbus/RS485, Analogue output

SMAX	-	XXX Ⓐ	-	XXX Ⓑ	-	XXX Ⓒ	-	/Sxxx Ⓓ
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<p>Ⓐ OUTPUT CIRCUITS</p> <p>MB = Modbus/RS485</p> <p>AI1 = 4-20 mA (10 bit)</p> <p>AV2 = 0-10V (10 bit)</p>	<p>Ⓑ RESOLUTION</p> <p>PRG = programmable by teach-in</p>	<p>Ⓒ CONNECTIONS</p> <p>L1 = cable output 1 m (standard)</p> <p>Lx = cable output x m</p> <p>M0,5 = 0,5 m cable + M12 8 pin inline plug</p> <p>M2 = 2 m cable + M12 8 pin inline plug</p>	<p>Ⓓ CUSTOM VERSION</p>
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Order code - Magnetic tape

MTAX	-	XXXX Ⓐ	-	XX Ⓑ	-	X Ⓒ
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<p>Ⓐ TAPE LENGTH (measuring length)</p> <p>280 = 280 mm (ML = 200)</p> <p>380 = 380 mm (ML = 300)</p> <p>680 = 680 mm (ML = 600)</p>	<p>Ⓑ ACCURACY CLASS</p> <p>50 = ± 35µm/m</p>	<p>Ⓒ COVER STRIP</p> <p>0 = not supplied</p> <p>1 = supplied</p>
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