



- IEC Ex & ATEX certified bearingless encoder
- IEC Ex certification Ex mc IIC T4 Gc, Zone 2, Gas group IIC
- ATEX certification Ex II 3G Ex mc IIC T4 Gc
- Absolute and incremental position
- Ring dimensions on request
- IP68 protection



SMLAX

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-10°C +85°C (14°F +185°F)
Storage temperature range:	-25°C +85°C (-13°F +185°F)
Protection:	IP68

MECHANICAL SPECIFICATIONS

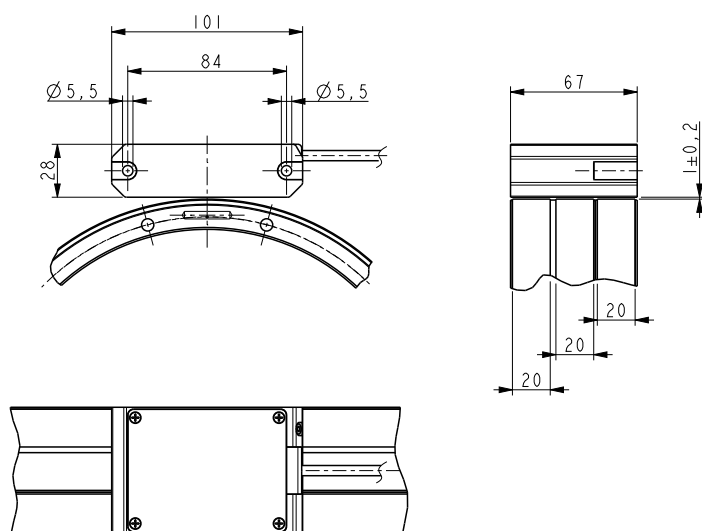
Dimensions:	see drawing
Hollow shaft diameter:	see MRA/SMLAX specifications
Gap sensor-ring:	1 ± 0,2 mm
Electrical connections:	Lika Hi-flex cable 1,0 m
Option:	• additional cable

ELECTRICAL SPECIFICATIONS

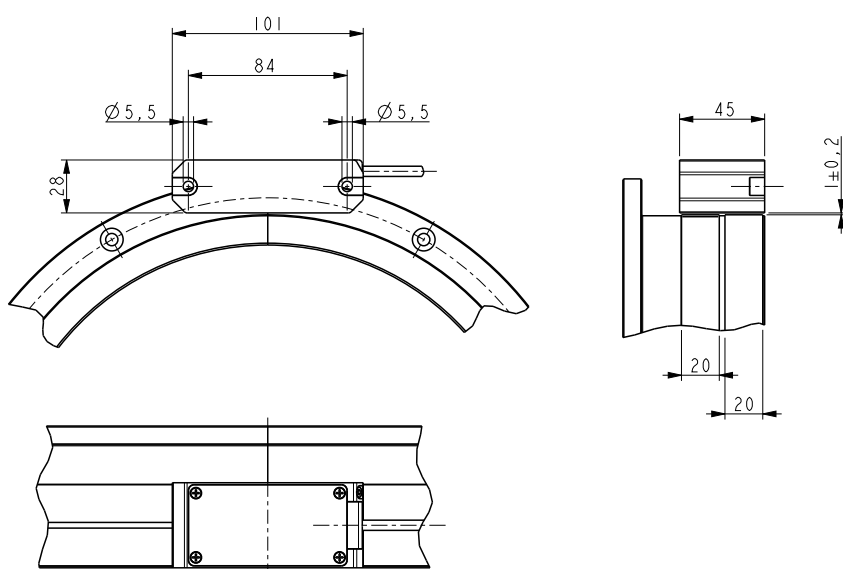
Resolution:	see specifications
Accuracy:	absolute: ± 0.4° max incremental: ± 0.09° max
Repeatability:	± 1 count
Output circuits:	Absolute: SSI, MSB aligned, clock rate 2MHz max. Incremental: Push-Pull, Line Driver, AB0 /AB0
Power supply:	+5Vdc ± 5%, +10Vdc ÷ +30Vdc
Power consumption:	1,6 W max.
Permitted supply short-circuit current:	10 A
Output current (each channel):	20 mA
Protection:	against inversion of polarity and short-circuit
EMC:	electro-magnetic immunity, EN 61000-4-2 EN 61000-4-4

MATERIALS

Sensor housing:	anticorrosive, UNI EN AW-6082
Tape support:	metal
Tape:	plastoferrite



Type 1: SMLAX (absolute + incremental version)



Type 2: SMLAX (absolute or incremental version)

Order code - Type 1 Sensor (Absolute + incremental version)

SMLAX	-	XX ⓐ	X ⓑ	-	XX ⓒ	-	XX ⓓ	/Sxxx ⓔ
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ⓐ OUTPUT CIRCUITS B0 = SSI, Binary + 1024 PPR Line Driver G0 = SSI, Gray + 1024 PPR Line Driver B5 = SSI, Binary + 1024 PPR Push Pull G5 = SSI, Gray + 1024 PPR Push Pull	ⓑ SUPPLY VOLTAGE 1 = +5V±5% (not for B5, G5) 2 = +10V± +30V	ⓒ RESOLUTION 05 = 4096 cpr absolute 06 = 8192 cpr absolute 07 = 16384 cpr absolute	ⓓ CONNECTIONS L1 = cable output 1 m Lx = cable output x meters	ⓔ CUSTOM VERSION
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Order code - Type 2 Sensor (Absolute or incremental version)

SMLAX	-	XX ⓐ	X ⓑ	-	XXX ⓒ	-	X ⓓ	-	XX ⓔ	/Sxxx ⓕ
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ⓐ OUTPUT CIRCUITS L = Line Driver (RS422) Y = Push-Pull ABO /ABO BG = SSI binary coded GG = SSI gray coded	ⓑ SUPPLY VOLTAGE 1 = +5V±5% (except Y output circuit) 2 = +10V± +30V	ⓒ RESOLUTION see MRx/SMLAX specifications	ⓓ INDEX R = unique reference signal (no output for BG, GG)	ⓔ CONNECTIONS L1 = cable output 1 m Lx = cable output x meters	ⓕ CUSTOM VERSION
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