LINEPULS
Magnetic switches

lika

Series	SMX2 • SMX5

- Heavy-duty magnetic sensor
- Quadrature output, AB signals
- Universal output circuit (Push-Pull & Line Driver)
- M10 steel case
- Gap clearance up to 3.0 mm
- Position & speed measurement
- Suitable for linear or rotary applications

SMX2 • SMX5

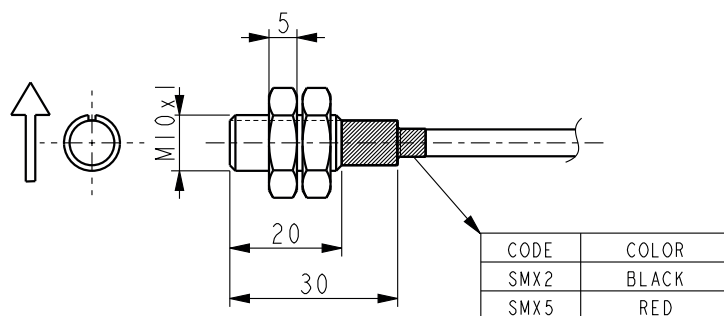| ENVIRONMENTAL SPECIFICATIONS	
Shock:	250 g, 6 ms acc. to CEI EN 60068-2-27
Vibrations:	10 g, 5-2000 Hz acc. to CEI EN 60068-2-6
Protection:	IP67
Operating temperature range:	-25°C ÷ +85°C (-13°F +185°F)
Storage temperature range:	-40°C ÷ +100°C (-40°F +212°F)

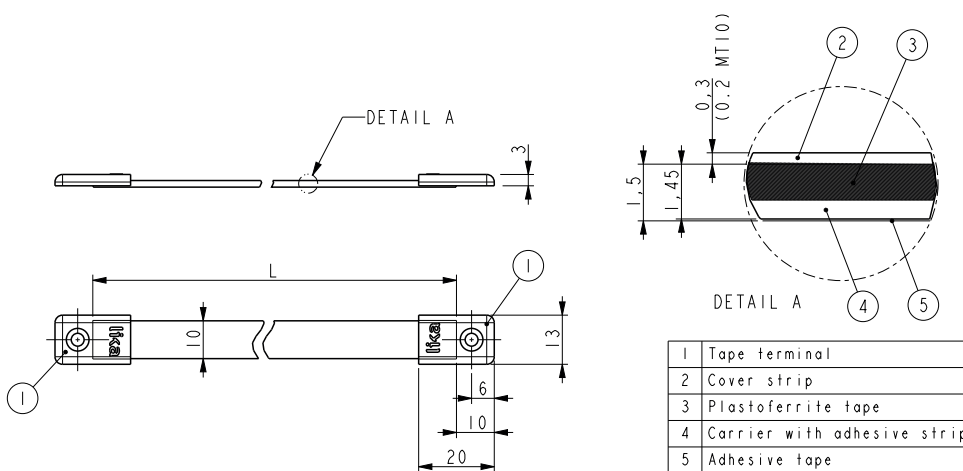| MECHANICAL SPECIFICATIONS	
Dimensions:	see drawing
Housing material:	stainless steel
Electrical connections:	Lika Hi-flex cable M6, 1,0 m
Gap between sensor/tape (without cover strip):	SMX2: 0,1 ÷ 2,0 mm
	SMX5: 0,1 ÷ 3,0 mm
Travel speed (mechanical):	max 16 m/s
Measurement length:	Tape length -5 mm each side

ELECTRICAL SPECIFICATIONS	
Resolution:	SMX2: 1 mm
	SMX5: 2.5 mm
Repeat accuracy:	±1 increment
Output circuits:	Universal output circuit (PP/LD)
Output signals:	AB /AB
Counting frequency:	30 kHz
Power supply:	+5Vdc +30Vdc
Power consumption:	50 mA max.
Protection:	against inversion of polarity and short-circuit
EMC:	acc. to EN 61000-6-2 level 3

ACCESSORIES	
MT50:	Magnetic tape for SMX5
MT20:	Magnetic tape for SMX2
MRI:	Magnetic rings
KIT LKM-1440:	Set of tape terminals (10 pcs)

CODE	COLOR
SMX2	BLACK
SMX5	RED

SMX2 • SMX5

I	Tape terminal
2	Cover strip
3	Plastoferrite tape
4	Carrier with adhesive strip
5	Adhesive tape

MT50 • MT20

Order code – Sensor

SMX2 SMX5	–	C (a)	–	X (b)	–	X (c)	–	XXX (d)	/Sxxx (e)

(a) **C =** circular sensor

(b) **OUTPUT CIRCUITS**
H = PP/LD universal circuit

(c) **POWER SUPPLY**
4 = +5Vdc ±30Vdc

(d) **CONNECTIONS**
L2 = cable output 2 m
L5 = cable output 5 m
Lx = cable output x m

(e) **CUSTOM VERSION**

Order code – Magnetic tape

MT20 MT50	–	XXX (a)	–	XXX (b)	–	X (c)	–	/Sxxx (d)

(a) **LENGTH**
1 = 1,0 m
2 = 2,0 m
4 = 4,0 m
10 = 10,0 m
20 = 20,0 m
30 = 30,0 m
50 = 50,0 m
100 = 100,0 m

(b) **ACCURACY CLASS**
100 = ±85 µm/m

(c) **COVER STRIP**
0 = not supplied
1 = supplied

(d) **CUSTOM VERSION**

Specifications subject to changes without prior notice