

LINEPULS

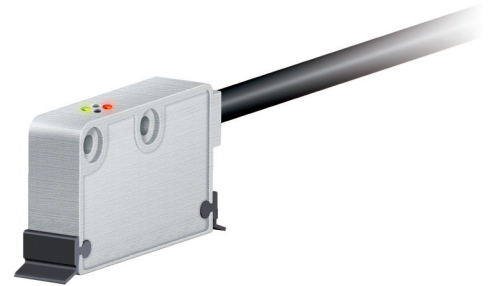
Magnetic sensor with integrated converter

Series

SME22



- 2 integrated limit switch sensors
- High resolution sensor for linear measurements
- High speed and protection degree
- Speed proportional output signals
- Resolution up to 1 μm
- Reference and limit switch marks to be installed along the magnetic tape
- Optional tape cleaning wipers



SME22

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-25°C +85°C (-13°F +185°F)
Storage temperature range:	-40°C +100°C (-40°F +212°F)
Protection:	IP67

MECHANICAL SPECIFICATIONS

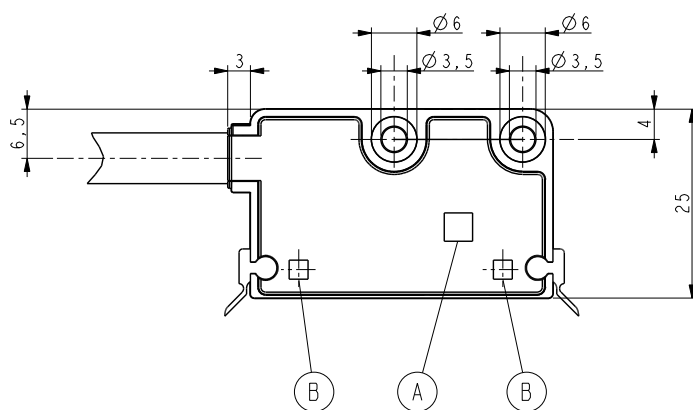
Dimensions:	see drawing
Housing:	die cast aluminium, UNI EN AC-46100
Connection:	Lika Hi-flex cable M10, 2,0 m
Gap sensor-magnetic tape (without cover strip):	0,1 ÷ 1,0 mm
Travel speed:	16 m/s max. (mechanical)
Resolution:	0,05 / 0,01 / 0,002 / 0,001 mm
System accuracy:	$\pm 15 \mu\text{m}$ max.
Repeatability:	± 1 increment

ELECTRICAL SPECIFICATIONS

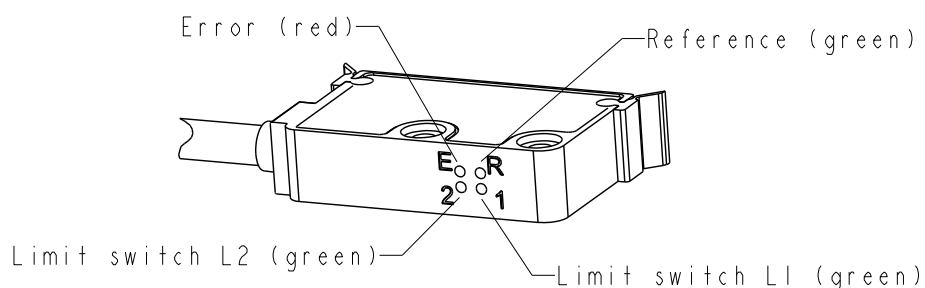
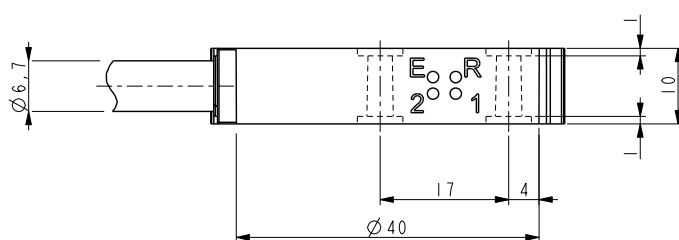
Power supply:	+5Vdc $\pm 5\%$, +10Vdc ÷ +30Vdc
Output circuits:	Line Driver, Push-Pull
Output signals:	AB0 /AB0 + LS1, LS2 (open-collector@50 mA)
Counting frequency:	acc. to edge distance setting
Output current (per channel):	40 mA max.
Input current:	80 mA max.
EMC:	acc. to EN 61000-6-2 level 3
Protection:	against inversion of polarity (except 5Vdc version) and short circuit

ACCESSORIES

MT20:	Magnetic tape
LKM-1309/2:	Reference pole support
LKM-1309/LS	Limit switch support
KIT LKM-1440:	Tape terminals
KIT WIPERS:	Wipers for SMExx/SMSxx, 10 pcs
PS1:	Protection profile



A	Reference Sensor
B	Limit Switch (L1, L2)



SME22

Order code

Additional code (optional)

SME22	-	XX a	-	X b	-	XX c	-	X d	-	XX e	-	X f	/Sxxx g
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<p>a OUTPUT CIRCUITS</p> <p>Y = Push-Pull (AB) YC = Push-Pull (AB, /AB) L = Line Driver (AB, /AB)</p> <p>b POWER SUPPLY</p> <p>1 = +5Vdc ±5% (L) 2 = +10Vdc ÷ +30Vdc (Y and L)</p>	<p>c RESOLUTION</p> <p>50 = 0,05 mm (50 µm) 10 = 0,01 mm (10 µm) 2 = 0,002 mm (2 µm) 1 = 0,001 mm (1 µm)</p> <p>d INDEX</p> <p>R = unique reference signal</p> <p>e CONNECTIONS</p> <p>L2 = cable output 2 m L5 = cable output 5 m Lx = cable length on request</p>	<p>f EDGE DISTANCE</p> <p>H = 0,3 µs min. edge distance J = 0,5 µs at output A = 1 µs B = 2 µs C = 4 µs D = 8 µs E = 16 µs F = 25 µs</p>	<p>g CUSTOM VERSION</p>
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