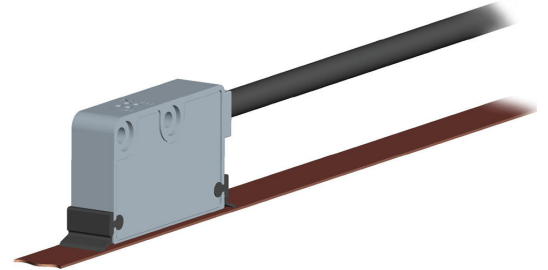




- High resolution sensor for linear and angular measurements
- High speed and protection degree
- Speed proportional output signals
- Resolution up to 1  $\mu\text{m}$



SME21

#### 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

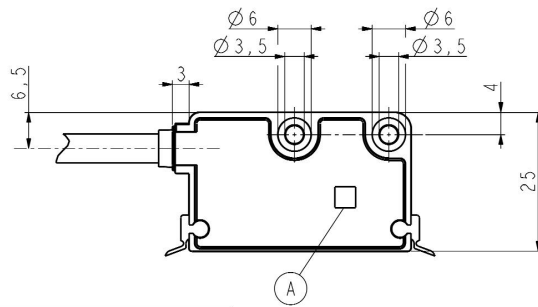
Dimensions:	see drawing
Housing:	die cast aluminium, UNI EN AC-46100
Connection:	Lika Hi-flex cable M8, 2,0 m
Gap sensor-magnetic tape:	0,1 ÷ 1,0 mm
Travel speed:	max. 16 m/s (mechanical)
Resolution:	0,05 / 0,01 / 0,002 / 0,001 mm
System accuracy:	±15 $\mu\text{m}$ max.
Repeatability:	±1 increment

#### ELECTRICAL SPECIFICATIONS

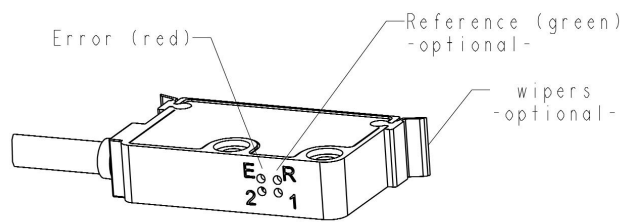
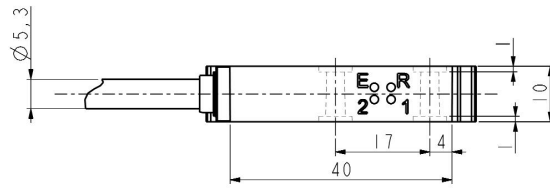
Power supply:	+5Vdc ±5%, +10Vdc ÷ +30Vdc
Output circuits:	Line Driver, Push-Pull
Output signals:	ABI, /ABI
Counting frequency:	acc. to edge distance setting
Output current (per channel):	40 mA max
Input current:	70 mA max
Protection:	against inversion of polarity (except 5Vdc version) and short-circuit

#### ACCESSORIES

MT20:	Magnetic tape
LKM-1309/2:	Reference pole support
LKM-1440:	Tape terminals
KIT LKM-1722:	Wipers for SMExx/SMSxx, 10 pcs
MRI:	Magnetic ring



A Reference Sensor (optional)



SME21

### ORDERING CODE

XXXX	-	XX	-	X	-	XXX	-	X	-	XX	X
SERIES											
SME21											
INDEX											
N without											
I every 2 mm											
R unique reference signal											
EDGE DISTANCE											
H 0,3 µs min. edge distance at output*											
J 0,5 µs											
A 1 µs											
B 2 µs											
C 4 µs											
D 8 µs											
E 16 µs											
F 32 µs											
RESOLUTION											
50 0,05 mm (50 µm)											
10 0,01 mm (10 µm)											
2 0,002 mm (2 µm)											
1 0,001 mm (1 µm)											
Cable length on request											
xx Ex: 2= 2 meters											
7= 7 meters											
OUTPUT CIRCUITS											
Push-Pull (AB) Y											
Push-Pull (AB, /AB) YC											
Line Driver (AB, /AB) L											
POWER SUPPLY											
+5Vdc ±5% (L) 1											
+10Vdc ÷ +30Vdc (Y and L) 2											