



SME5

- Robust sensor for linear and angular measurements
- Gap clearance up to 2.0 mm
- IP67 protection
- Speed proportional output signals
- Resolution up to 5 µm

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:	aluminium
Connections:	Cable 2,0 m
Gap sensor-magnetic tape:	0,1 ÷ 2,0 mm
Travel speed:	max 16 m/s
Resolution:	0,05 / 0,04 / 0,025 / 0,02 / 0,01 / 0,005 mm
System accuracy:	±15 µm max.
Repeatability:	±1 increment

ELECTRICAL SPECIFICATIONS

Power supply:	+5Vdc ±5%, +10Vdc ÷ +30Vdc
Output circuits:	Line Driver, Push-Pull
Output signals:	A, /A, B, /B, I, /I
Output current (per channel):	40 mA max
Input current:	70 mA max
Protection:	against inversion of polarity (except 5Vdc version) and short-circuit

ACCESSORIES

MT50:	Magnetic tape
LKM-1309/5:	Reference pole support
PS1:	Protection profile
MRI:	Magnetic ring

ORDERING CODE

XXXX	-	XX	-	X	-	XX	-	X	-	XX	X
SERIES		OUTPUT CIRCUITS		INDEX		RESOLUTION		EDGE DISTANCE			
SME5		Push-Pull (AB) Y Push-Pull (AB, /AB) YC Line Driver (AB, /AB) L		N without I every 5 mm R unique reference signal		50 0,05 mm (50 µm) 25 0,025 mm (25 µm) 10 0,01 mm (10 µm) 5 0,005 mm (5 µm)		A 1µs min. edge distance at output* B 2µs C 4µs D 8µs E 16µs F 32µs *see page 15		xx Cable length on request Ex.: 2 = 2 meters 7 = 7 meters	
POWER SUPPLY		+5Vdc ±5% (L) 1 +10Vdc ÷ +30Vdc (Y and L) 2									

