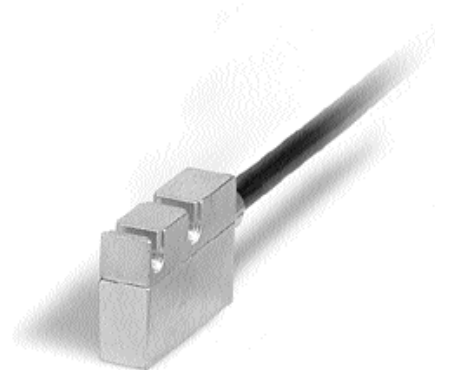
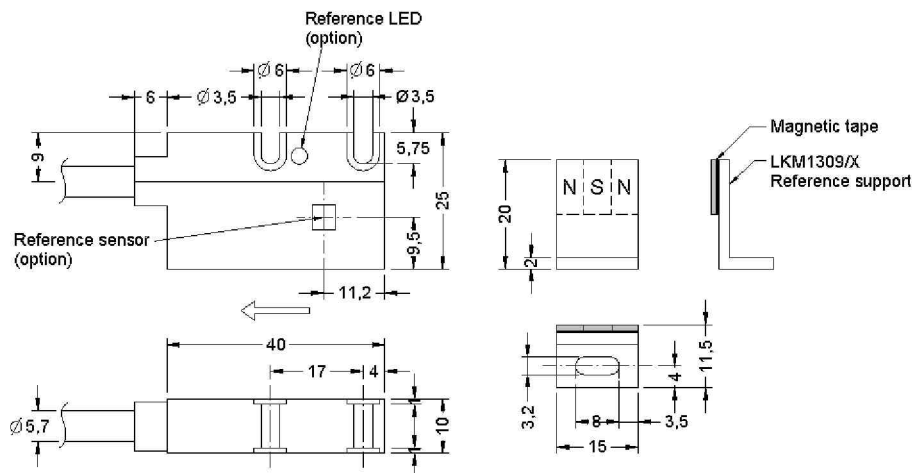


series

SME1



SME1

- Magnetic sensor for linear and torque motors
- IP67 protection
- Speed proportional output signals
- Resolution up to 0.5 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
Connection:	cable 2,0 m
Gap sensor-magnetic tape (without cover strip):	0,1 ÷ 0,4 mm
Travel speed:	max 16 m/s
Resolution:	0,01 / 0,005 / 0,002 / 0,001 / 0,0005 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

MT10:	Magnetic tape
LKM-1309/1:	Reference pole support
MRI:	Magnetic ring

ORDERING CODE

XXXX	-	XX	-	X	-	XX	-	X	-	XX	XX
SERIES						INDEX		EDGE DISTANCE			
SME1						N without I every 1 mm R unique reference signal		H 0,3µs min. edge J 0,5µs distance A 1µs B 2µs C 4µs			
OUTPUT CIRCUITS						RESOLUTION		*see page 15			
Push-Pull (AB) Y Push-Pull (AB, /AB) YC Line Driver (AB, /AB) L						10 0,01 mm (10 µm) 5 0,005 mm (5 µm) 2 0,002 mm (2 µm) 1 0,001 mm (1 µm) 05 0,0005 mm (0,5 µm)		Cable length on request			
POWER SUPPLY								xx Ex: 2 = 2 meters 7 = 7 meters			
+5Vdc ±5% (L) 1 +10Vdc ÷ +30Vdc (Y and L) 2											



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