

Series

SMS12









- 2 integrated limit switch sensors
- Magnetic encoder for linear motors
- Sine-cosine 1Vpp real-time output
- Unaffected by dust, debris or liquids, IP67
- Status LED for clearance error and A, B signals
- Reference and limit switch marks to be installed along the magnetic tape
- Optional tape cleaning wipers



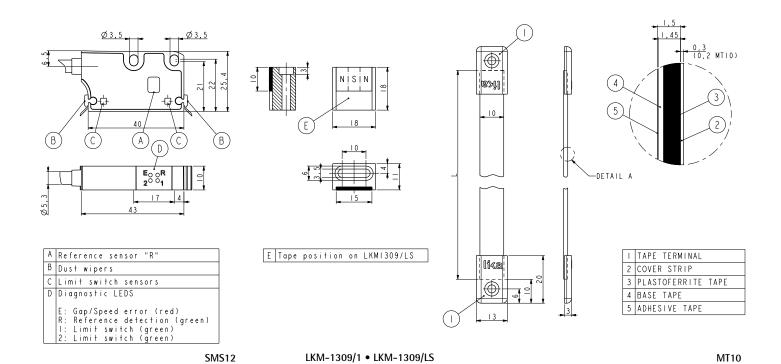
SMS12

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:	die cast aluminium, UNI EN AC-46100				
Electrical connections:	Lika Hi-flex cable M10, 2,0 m				
Gap between sensor/tape (without cover strip):	0,1 ÷ 0,5 mm				
Travel speed (mechanical):	max 16 m/s				
Measurement length:	Tape length -5 mm each side				

	ELECTRICAL SPECIFICATIONS
Resolution:	1000 μm
Sensor accuracy:	max. 1% of period length
Repeat accuracy:	±1 increment
Output circuits:	1Vpp
Output signals:	sine/cosine, ABO /ABO + LS1, LS2 (o.c. 50 mA)
Counting frequency:	18 kHz
Power supply:	+5Vdc ±5%
Power consumption:	80 mA
Protection:	against short-circuit
EMC:	acc. to EN 61000-6-2 level 3

ACCESSORIES				
MT10:	Magnetic tape			
LKM-1309/1:	Reference pole support			
LKM-1309/LS	Limit switch support			
KIT LKM-1440:	Set of tape terminals (10 pcs)			
KIT WIPERS:	Wipers for SMExx/SMSxx (10 pcs)			



Order code - Sensor

SMS12	-	X a	-	Х Ъ	-	X ©	-	XX @	/Sxxx ©
(a) OUTPUT CIF V = sin/cos 1Vpp (b) POWER SUF 1 = +5Vdc ±5%	PPLY	© INDEX R = unique reference signal (RS422 level) T = unique reference signal (1Vpp level)				d CONNECTI L2 = cable out L5 = cable out Lx = cable out	put 2 m put 5 m		
							© CUSTOM \	/ERSION	

Order code - Magnetic tape

	MT10	-	XXX ②	-	XXX (b)	-	X ©	-	/Sxxx d
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(a) LENGTH		(b) ACCURACY CLASS	© COVER STRIP
1 = 1,0 m 2 = 2,0 m 4 = 4,0 m	20 = 20,0 m 30 = 30,0 m 50 = 50,0 m	100 = $\pm 85 \mu m/m$ 50 = $\pm 35 \mu m/m$ (up to 30 m) 10 = $\pm 8 \mu m/m$ (up to 10 m)	0 = not supplied1 = supplied
10 = 10,0 m	100 = 100,0 m		(d) CUSTOM VERSION