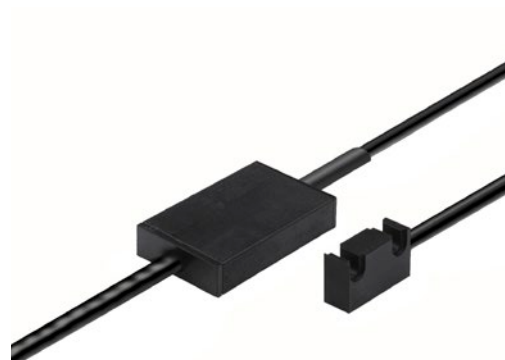


Series

SMB2 • SMB5



- Compact encoders with in-line external interpolator
- IP67 protection
- Resolution up to 5 µm



SMB2 • SMB5

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 M8, 2,0 m
Gap between sensor/tape (without cover strip):	SMB2: 0,1 ÷ 1,0 mm SMB5: 0,1 ÷ 2,0 mm
Travel speed (mechanical):	max 16 m/s
Measurement length:	Tape length -5 mm each side

ELECTRICAL SPECIFICATIONS

Resolution:	0,01 / 0,005 mm
Sensor accuracy:	±15 µm max.
Repeat accuracy:	±1 increment
Output circuits:	Line Driver, Push-Pull
Output signals:	AB0 /AB0
Counting frequency:	acc. to edge distance setting
Power supply:	+5Vdc ±5%, +10Vdc ÷ +30Vdc
Power consumption:	70 mA
Protection:	against inversion of polarity (except 5Vdc version) and short-circuit
EMC:	acc. to EN 61000-6-2 level 3

ACCESSORIES

MT20:	Magnetic tape for SMB2
MT50:	Magnetic tape for SMB5
KIT PS1-1,0:	Protection profile (10 pcs)
KIT LKM-1440:	Set of tape terminals (10 pcs)

Edge distance selection

Order code	Edge distance (µsec)	Max. counting frequency (kHz)	Resolution (µm) vs. max. possible speed (m/s)	
			5	10
H	0,3	3.333	11,67	23,34
J	0,5	2.000	7,00	14,00
A	1	1.000	3,50	7,00
B	2	500	1,67	3,34
C	4	250	0,88	1,75

