

## KUEBLER - LIMES MAGNETIC SENSOR LI20 MAGNETIC TAPE B1 SERIE 8.LI20.

- Resolution up to 0.01 mm
- Contactless measuring technology
- Status LED
- IP67 Impervious to chips, oil, water, etc.



### PRODUCT DESCRIPTION

Linear sensor used to measure linear movements with high accuracy, for example in woodworking machines, lathes, material handling, overhead cranes etc. The sensor is almost entirely non-sensitive to chips, oil, dust and water and can thus be used in troublesome environments, it is sealed and has no moving parts. This sensor is fitted to read a magnetic tape with a self-adhesive underside. This sensor is available with different resolutions, and if the recipient (counter/PLC) has a multiplication function, a resolution of 10 µm can be achieved. See electrical data (Resolution, Accuracy) for more information.

Magnetic tape B1 has a polar distance of 2 mm. For the combination LI20/B1, the distance between sensor and tape must be 0.1 to 1.0 mm (0.4 mm is recommended). For the magnet sensor, the slope must not exceed  $\pm 3^\circ$ , the rotation must not exceed  $\pm 3^\circ$  and the offset must not exceed  $\pm 1$  mm.

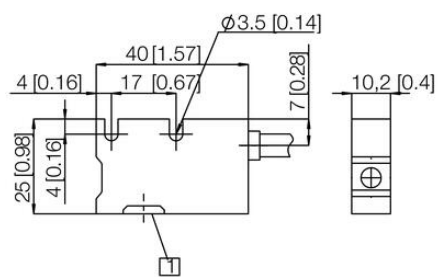
The following information is required to select the right combination:

- requirement on accuracy (from 0.4 mm to 0.01 mm)
- the movement's speed (taking into account frequency to subsequent systems and the sensor's max. speed)
- the movement's length (to order the magnetic scale's length = required length of measurement + 1 dm)

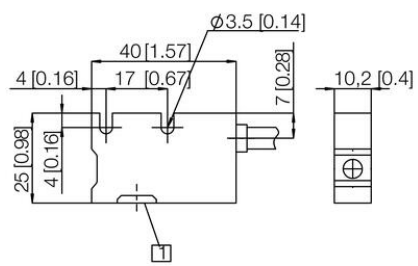
Please refer to the images below for ordering information.

Order code sensor head Limes LI20		8.LI20 . X1X1 . 2XXX					
		Type	a	b	c	d	e f
<b>a</b> Model			<b>c</b> Output circuit / power supply		<b>e</b> Reference signal		Stock types
1 = IP67, standard			1 = RS422 / 4.8 ... 26 V DC		2 = index periodic		8.LI20.1111.2005
2 = IP68 / IP69k and humidity tested acc. to EN 60068-3-38, EN 60068-3-78			2 = Push-pull / 4.8 ... 30 V DC				8.LI20.1111.2020
<b>b</b> Pulse edge interval			<b>d</b> Type of connection		<b>f</b> Code (resolution) <sup>1)</sup>		8.LI20.1111.2050
1 = standard			1 = cable, 2 m [6.56'] PUR		005 = 100 µm		8.LI20.1121.2005
					020 = 25 µm		8.LI20.1121.2020
					050 = 10 µm		8.LI20.1121.2050

Order code magnetic band Limes B1		8.B1 . 10 . 010 . XXXX			
		Type	a	b	b
<b>a</b> Width			<b>b</b> Length		Optional on request
10 = 10 mm			0010 = 1 m		- other lengths up to 70 m
			0020 = 2 m		Stock types
			0040 = 4 m		8.B1.10.010.0010
			0050 = 5 m		
			0060 = 6 m		
			0100 = 10 m		
			0200 = 20 m		



1 mätområde



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