

## KUEBLER - MAGNET SENSOR LI50 WITH MAGNETIC TAPE B2

SERIE 8.LI50



- Resolution up to 0.005 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 5 µm can be achieved. See electrical data (Resolution, Accuracy) for more information. Magnetic tape B2 has a polar distance of 5 mm. For the combination LI50/B2, the distance between sensor and tape must be 0.1 to 2.0 mm (1.0 mm is recommended). For the magnet sensor, the slope must not exceed ±3°, the rotation must not exceed ±3° and the offset must not exceed ±1 mm.

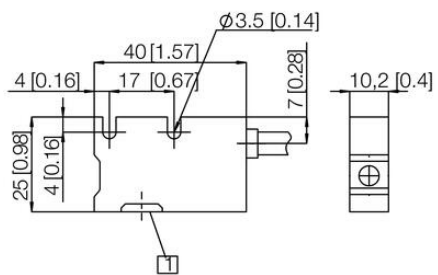
The following information is required to select the right combination:

- requirement on accuracy (from 0.1 mm to 0.005 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)

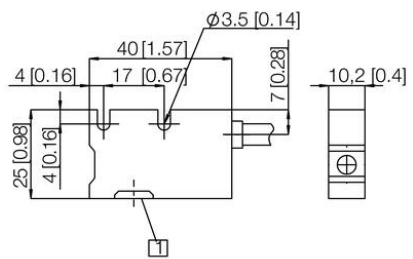
Please refer to the images below for ordering information.

| Order code sensor head Limes LI50 |   | 8.LI50 . X1X1 . 2XXX                   |  |   |  |  |   |  |
|-----------------------------------|---|--|--|---|--|--|---|--|
|                                   |   | Type                                   | a  | b | c  | d  | e | f  |
| <b>a</b> Model                    | 1 = IP67, standard<br>2 = IP68 / IP69k and humidity tested acc. to EN 60068-3-38, EN 60068-3-78 | <b>c</b> Output circuit / power supply | 1 = RS422 / 4.8 ... 26 V DC<br>2 = Push-pull / 4.8 ... 30 V DC |   | <b>e</b> Reference signal                | 1 = index periodic<br>2 = index periodic |   | <b>Stock types</b>   |
| <b>b</b> Pulse edge interval      | 1 = standard  | <b>d</b> Type of connection            | 1 = cable, 2 m [6.56'] PUR                                     |   | <b>f</b> Code (resolution) <sup>1)</sup> | 050 = 25 µm<br>250 = 5 µm                |   | 8.LI50.1111.2050<br>8.LI50.1111.2250<br>8.LI50.1121.2050<br>8.LI50.1121.2250 |

| Order code magnetic band Limes B2 |            | 8.B2 . 10 . 010 . XXXX |            |             |                            |                    |
|-----------------------------------|------------|------------------------|------------|-------------|----------------------------|--------------------|
|                                   |            | Type                   | a          | b           |                            |                    |
| <b>a</b> Width                    | 10 = 10 mm | <b>b</b> Length        | 0010 = 1 m | 0060 = 6 m  | <b>Optional on request</b> | <b>Stock types</b> |
|                                   |            |                        | 0020 = 2 m | 0100 = 10 m | - other lengths up to 70 m | 8.B2.10.010.0020   |
|                                   |            |                        | 0040 = 4 m | 0200 = 20 m |                            |                    |
|                                   |            |                        | 0050 = 5 m |             |                            |                    |



1 mätområde



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