KUEBLER - MAGNET SENSOR LI20 WITH MAGNETIC RING RI20

SERIE 8.LI20

- Robust and able to withstand vibration
- Easy to install
- High resolution
- IP67. Impervious to chips, oil, water, etc.



Product description

The combination RI20/LI20 is used to measure length via a rotary shaft, e.g. in woodturning machines, materials handling, overhead cranes, etc. This sensor is more or less totally impervious to chips, oil, dust and water and thus can be used in troublesome environments, it is sealed and has no moving parts. The sensor is fitted to read on a yoke. This yoke is available for shaft dimensions 8-30 mm. There are three different yoke sizes; 31 mm, 41.2 mm and 45 mm.

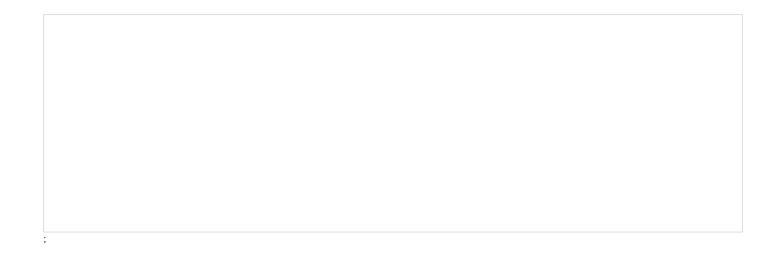
The yoke RI20 has a pole distance of 2 mm. The distance between the sensor and the yoke should be 0.1 to 1.0 mm (recommended 0.4 mm). For the magnet sensor, the slope must not exceed $\pm 3^{\circ}$, the rotation must not exceed $\pm 3^{\circ}$ and the offset must not exceed ± 1 mm.

The following information is required to select the right combination:

- yoke size
- max. shaft rotation speed (given the frequency to following systems)

Pulses/revolution	Yoke	Magnet sensor	Max. revolutions (rpm)
250	RI20.031.XXXX	LI20.11X1.2005	12000
1000	RI20.031.XXXX	LI20.11X1.2020	2400
2500	RI20.031.XXXX	LI20.11X1.2050	3900
1024	RI20.041.XXXX	LI20.11X1.2016	7000
360	RI20.045.XXXX	LI20.11X1.2005	12000
3600	RI20.045.XXXX	LI20.11X1.2050	2700

Please refer to the images below fo	Please refer to the images below for ordering information.					

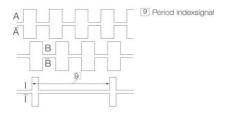


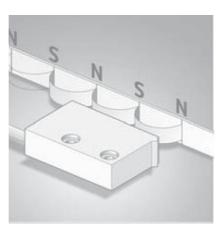


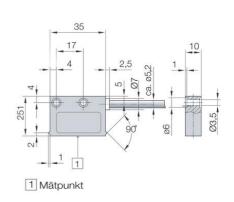
Order code Magnetic ring RI20		XX . XXXX .	111	Min, order o	quartity for non-stock types: 10 pieces
Outer diameter 031 = 31 mm [1.22"] 041 = 41.2 mm [1.82"] 045 = 45 mm [1.77"]	O Sone diameter 0000 = 8 mm [0.32"] 1000 = 10 mm [0.32"] 1200 = 12 mm [0.47"] 1500 = 15 mm [0.59"]	1800 = 18 mm [0.71"] 2000 = 20 mm [0.79"] 2500 = 25 mm [0.50"] ² 3000 = 30 mm [1.18"] ²	1587	= 30" = 50" = 1" ³	Stock types 8.RC0031.800.311 8.RC0031.800.311 8.RC0031.800.311 8.RC0031.700.311 8.RC0031.700.311 8.RC0041.800.311 8.RC0046.800.311 8.RC0046.800.311 8.RC0046.800.311 8.RC0046.800.311 8.RC0046.800.311 8.RC046.800.311

Pin assignment:

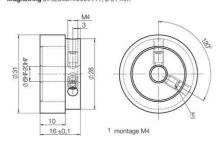
Signal	Wire colour
0 V, GND	white
UB	brown
A	green
\overline{A}	yellow
В	grey
B	pink
1	blue
T	red
Shield is on the housing	







Magnetring 8.Ri20.031.XXXX.111, ø 31 mm



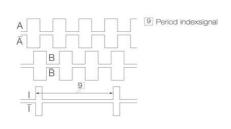
Order code Sensor head Limes LI20	8.L120 . X 1 X X . 2 XXX		
Model 1 = IPES, standard 2 = IPES, 1990s and humidity tested act. to EN 60089-3-38, EN 60089-3-78 Output circuit/ power apply 1 = 89822 (4 s 28 V DC 2 = Pain-by all (4 s 28 V DC	Type of connection 1 = cable, 2n (8.597 PUR 1 = cable, 2n (8.597 PUR 1 = redial cable, special length PUR 1 = Assistable special lengths (connection type Al 2, 5, 1, 10, 15 m (8.84, 15.64, 26.25, 26.06, 42.77) order code expansion. XXXXII = regist in ide ex. 8.1203.1114.2005.0000 for cable length 3 mi	Reference signal Index periodical interpolation factor 005, 016, 020, 050	Stock types 81120 1111 2005 81120 1111 2020 81120 1111 2030 81120 1121 2020 81120 1121 2020 81120 1121 2030

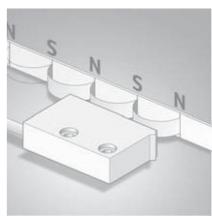
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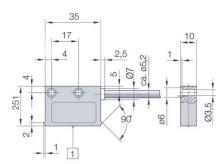
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1 Mätpunkt

