KUEBLER - MAGNET SENSOR LI20 WITH MAGNETIC RING RI20

SERIE 8.LI20

Kübler

- 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 for ordering information.

Order code Sensor head Limes LI20	8.LI20 . X 1 X X . 2 XXX Type . 0 0 0		
 Model I = IP67, standard IP68 / IP69k and humidity tested acc. to EN 60068-3-38, EN 60068-3-78 Output circuit / power supply RS422 / 4.8 26 V DC Push-pull / 4.8 30 V DC 	 Type of connection = cable, 2 m [6.56'] PUR a radial cable, special length PUR *) *) Available special lengths (connection type A): 5, 8, 10, 15 m [9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.LI20.111A.2005.0030 (for cable length 3 m) 	 Reference signal 2 = Index periodical Interpolation factor 005, 016, 020, 050 	Stock types 8.LI20.1111.2005 8.LI20.1111.2020 8.LI20.1111.2050 8.LI20.1121.2005 8.LI20.1121.2020 8.LI20.1121.2050

Order code Magnetic ring RI20	8.RI20 _{Type} . XX	XX . XXXX . •	111 Min. o	rder quantity for non-stock types: 10 pieces
 Outer diameter 031 = 31 mm [1.22"] 041 = 41.2 mm [1.62"] 045 = 45 mm [1.77"] 	Bore diameter 0800 = 8 mm [0.32"] 1000 = 10 mm [0.39"] 1200 = 12 mm [0.47"] 1500 = 15 mm [0.59"]	1800 = 18 mm [0.71"] 2000 = 20 mm [0.79"] 2500 = 25 mm [0.98"] ³⁾ 3000 = 30 mm [1.18"] ³⁾	0952 = 3/8" 1587 = 5/8" 2540 = 1" ³⁾	Stock types 8.RI20.031.0800.111 8.RI20.031.1000.111 8.RI20.031.1200.111 8.RI20.031.1500.111 8.RI20.041.0800.111 8.RI20.045.1200.111 8.RI20.045.1500.111 8.RI20.045.2500.111 8.RI20.045.2540.111
Orders social B. 112:00 T. 120, 100 D. 200, 00 D. 200, 200, 200, 200, 200, 200, 200, 200	Divider Code Bix Start Magintic Starg R200 Magintic Starg R201 ■ Magintic Starg	B. R120 XXX XXXX <	rest-strict layer: 19 joiner Socied ages Review 200111 Review 20011 Review 20011 Review 200	Signal Wire colour 0 V, GND white UB brown A green A yellow B grey B pink I blue I red

B B I I Shield is on the housing







1 Mätpunkt

Magnetring 8.RI20.031.XXXX.111, ø 31 mm



Order code Sensor head Limes LI20	8.LI20 .X1XX.2XXX		
Model 1 = IPE, standard 2 = IPE, itsnifard 2 = IPE, itsnifard set, to EN 60088-3-38, EN 60088-3-78 Output circuit / power supply 1 = ISS422 (AB _ 28 V DC 2 = Pash-path (AB _ 28 V DC	Type of connection = cable, 2 m (8.561) PUR A = radial cable, special length PUR *)	Reference signal 2 = Index periodical	Stock types 81120.1111.2005 81120.1111.2020
	¹ Available special lengths (connection type A) 3, 5, 8, 10, 15 m (8.84, 16.40, 26.25, 32.80, 49.21) order code expansion XXXX = length in dm ex.: 8.U20.111A.2005.0030 (for cable length 3 m)	 Interpretation factor 005, 016, 020, 050 	81/120111112050 81/12011212005 81/12011212005 81/1201121200 81/12011212050

Order code Magnetic ring RI20	8.R120 . X	XX . XXXX .	111	Min. order o	uantity for non-stock types: 10 pieces
O Duter diameter 01 - 31 am [122"] 041 - 412 mm [1.62"] 045 - 45 mm [1.77"]	O Sore diameter 0000 - 6 mm [0.32 ⁺] 1000 - 10 mm [0.39 ⁺] 1200 - 12 mm [0.47 ⁺] 1500 - 15 mm [0.59 ⁺]	1800 + 18 mm [0.711] 2000 = 20 mm [0.791] 2500 = 25 mm [0.981] ³ 3000 = 30 mm [1.181] ³	0952 1587 2540	= 34° = 59° = 1° 5	Shock Rypen 8.REG.031.800.111 8.REG.031.800.111 8.REG.031.800.111 8.REG.031.800.111 8.REG.045.800.111 8.REG.045.800.111 8.REG.045.200.111 8.REG.045.200.111 8.REG.045.200.111 8.REG.045.200.111













1 Mätpunkt