

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 for ordering information.

| Order code Sensor head Limes LI20 | | 8.LI20 . X1XX . 2XXX Type a b c d e | | | | |
|--|--|--|---|---------------------------|----------------------|--|
| a Model | 1 = IP67, standard 2 = IP68 / IP69k and humidity tested acc. to EN 60068-3-38, EN 60068-3-78 | c Type of connection | 1 = cable, 2 m [6.56'] PUR A = radial cable, special length PUR *) | d Reference signal | 2 = Index periodical | Stock types |
| b Output circuit / power supply | 1 = RS422 / 4.8 ... 26 V DC 2 = Push-pull / 4.8 ... 30 V DC | e Interpolation factor | 005, 016, 020, 050 | | | 8.LI20.1111.2005 8.LI20.1111.2020 8.LI20.1111.2050 8.LI20.1121.2005 8.LI20.1121.2020 8.LI20.1121.2050 |
| | | *) Available special lengths (connection type A): 3, 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) | | | | |

Order code
Magnetic ring RI20

| | | | | | | |
|--------|---|----------|---|----------|---|-----|
| 8.R120 | . | XXX | . | XXXX | . | 111 |
| Type | | a | | b | | |

Min. order quantity for non-stock types: 10 pieces

a *Outer diameter*

031 = 31 mm [1.22"]
041 = 41.2 mm [1.62"]
045 = 45 mm [1.77"]

b *Bore diameter*

| | | |
|----------------------|------------------------------------|-------------------------|
| 0800 = 8 mm [0.32"] | 1800 = 18 mm [0.71"] | 0952 = 3/8" |
| 1000 = 10 mm [0.39"] | 2000 = 20 mm [0.79"] | 1587 = 5/8" |
| 1200 = 12 mm [0.47"] | 2500 = 25 mm [0.98"] ³⁾ | 2540 = 1" ³⁾ |
| 1500 = 15 mm [0.59"] | 3000 = 30 mm [1.18"] 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
8.RI20.045.3000.111

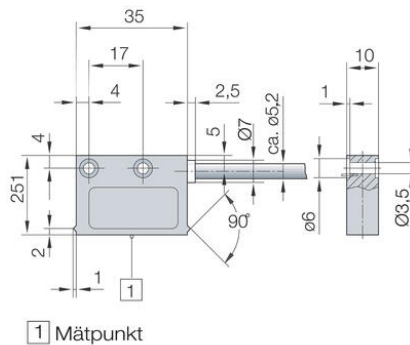
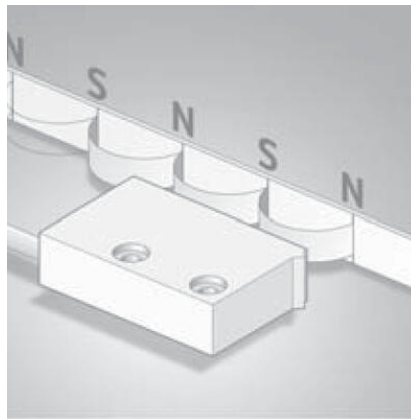
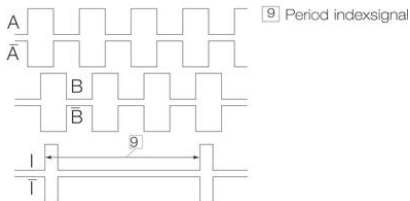
| Order code | | | | Year | | 8 L120 | | X1XX | | 2XXX | |
|---|---|--|----------------|------|--|--------|--|------|--|------|--|
| Sensor head Lines L120 | | | | | | | | | | | |
| 1 Model | 2 Type of connection | 3 Reference signal | Stock type | | | | | | | | |
| 1 = IMC standard | 1 = cable, 2 = 30-90° Push | 1 = Index position | 6.0110111.0000 | | | | | | | | |
| 2 = IP68 / IP67 and humidity tested acc. to EN 60068-3-20 | 3 = radial cable, special length (Push) | 2 = Index position | 6.0110111.0200 | | | | | | | | |
| | 4 = Available special lengths (connection type A) | 3 = Interpretation factor 000, 010, 020, 030 | 6.0110111.2000 | | | | | | | | |
| 3 Output circuit / supply power | 5 1, 6, 7, 10, 15, 18, 24, 30, 36, 45, 60, 75, 90, 120, 150, 180, 225, 400, 717 m | | 6.0110111.2500 | | | | | | | | |
| 1 = RelAt4 / 1.8 ... 28 V DC | 6 m: code expansion XXXXX | | 6.0110111.2600 | | | | | | | | |
| | 9 m: code expansion XXXXX | | 6.0110111.2700 | | | | | | | | |
| | 12 m: code expansion XXXXX | | 6.0110111.2800 | | | | | | | | |
| | 15 m: code expansion XXXXX | | 6.0110111.2900 | | | | | | | | |
| | 18 m: code expansion XXXXX | | 6.0110111.3000 | | | | | | | | |
| | 24 m: code expansion XXXXX | | 6.0110111.3100 | | | | | | | | |
| | 30 m: code expansion XXXXX | | 6.0110111.3200 | | | | | | | | |
| | 45 m: code expansion XXXXX | | 6.0110111.3300 | | | | | | | | |
| | 60 m: code expansion XXXXX | | 6.0110111.3400 | | | | | | | | |
| | 75 m: code expansion XXXXX | | 6.0110111.3500 | | | | | | | | |
| | 90 m: code expansion XXXXX | | 6.0110111.3600 | | | | | | | | |
| | 120 m: code expansion XXXXX | | 6.0110111.3700 | | | | | | | | |
| | 150 m: code expansion XXXXX | | 6.0110111.3800 | | | | | | | | |
| | 180 m: code expansion XXXXX | | 6.0110111.3900 | | | | | | | | |
| | 225 m: code expansion XXXXX | | 6.0110111.4000 | | | | | | | | |
| | 400 m: code expansion XXXXX | | 6.0110111.4100 | | | | | | | | |
| | 717 m: code expansion XXXXX | | 6.0110111.4200 | | | | | | | | |

| | | | | | |
|---------------------|---------------------|----------------------|----------------------|-------------------|---|
| Order code | 8.R120 | .XXX | .XXX | .111 | Mo, max. quantity for non-stock types 10 pieces |
| Magnetic ring R120 | Type | | | | |
| Outer diameter | Outer diameter | 9000 ± 0 mm (32.7") | 1800 ± 18 mm (30.7") | 900 ± 34" | Stock types |
| 941 ± 0.1 mm (3.7") | 941 ± 0.1 mm (3.7") | 2000 ± 20 mm (39.4") | 1000 ± 38" | R120.015.1000.111 | |
| 941 ± 0.2 mm (3.7") | 1200 ± 12 mm (4.7") | 2000 ± 20 mm (39.4") | 1250 ± 1.5" | R120.015.1200.111 | |
| 941 ± 0.2 mm (3.7") | 1500 ± 15 mm (5.9") | 2000 ± 20 mm (39.4") | 1500 ± 1.5" | R120.015.1500.111 | |
| | | 2000 ± 20 mm (39.4") | 2500 ± 1.5" | R120.045.1000.111 | |
| | | | | R120.045.1200.111 | |
| | | | | R120.045.1500.111 | |
| | | | | R120.045.2000.111 | |
| | | | | R120.045.2500.111 | |
| | | | | R120.060.1000.111 | |

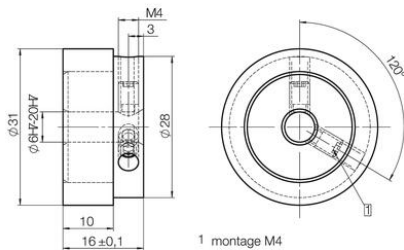
Pin assignment:

| Signal | Wire colour |
|----------------|-------------|
| 0 V, GND | white |
| U_B | brown |
| A | green |
| \overline{A} | yellow |
| B | grey |
| \overline{B} | pink |
| I | blue |
| \overline{I} | red |

Shield is on the housing



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



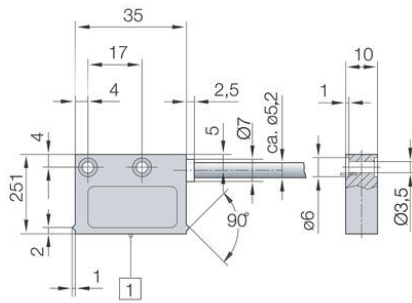
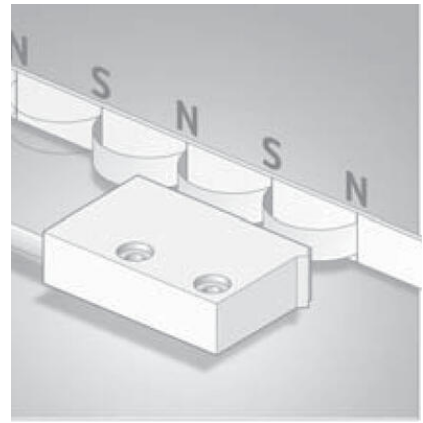
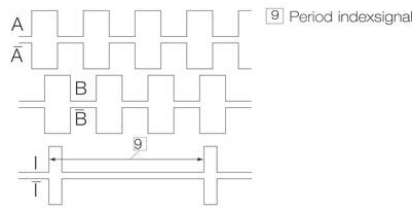
| Order code | | Sensor head Limes L120 | |
|---|--|--|--|
| | | | |
| <p>1 Model</p> <p>1 = IP65, standard</p> <p>2 = IP68 / IP69K and humidity tested</p> <p>3 = IP68 / IP69K and humidity tested - 70 °C</p> | <p>2 Type of connection</p> <p>1 = M12, standard</p> <p>2 = M12x1, 2 x M12x1</p> <p>A = radial cable, special length (Pm = *)</p> <p>Also available special lengths (Pm = *)</p> <p>2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 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759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785,</p> | <p>3 Reference signal</p> <p>2 = Inductive periodic</p> <p>3 = Inductive square</p> <p>4 = Inductive pulse</p> <p>5 = Inductive pulse</p> <p>6 = Inductive pulse</p> <p>7 = Inductive pulse</p> <p>8 = Inductive pulse</p> <p>9 = Inductive pulse</p> <p>10 = Inductive pulse</p> <p>11 = Inductive pulse</p> <p>12 = Inductive pulse</p> <p>13 = Inductive pulse</p> <p>14 = Inductive pulse</p> <p>15 = Inductive pulse</p> <p>16 = Inductive pulse</p> <p>17 = Inductive pulse</p> <p>18 = Inductive pulse</p> <p>19 = Inductive pulse</p> <p>20 = Inductive pulse</p> <p>21 = Inductive pulse</p> <p>22 = Inductive pulse</p> <p>23 = Inductive pulse</p> <p>24 = Inductive pulse</p> <p>25 = Inductive pulse</p> <p>26 = Inductive pulse</p> <p>27 = Inductive pulse</p> <p>28 = Inductive pulse</p> <p>29 = Inductive pulse</p> <p>30 = Inductive pulse</p> <p>31 = Inductive 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|---|---|--|
| Order code Magnetic ring R120 | 8. R120 . XXX . XXXX . 111 | Min. order quantity for non-stock types 10 pieces |
| Order diameter 91 ± 0.1 mm [3.58"] 94 ± 0.2 mm [3.70"] 95 ± 0 mm [3.73"] | Core diameter 9050 ± 0 mm [3.54"] 1800 ± 18 mm [3.71"] 0952 ± .34" 1000 ± 10 mm [3.94"] 2000 ± 20 mm [3.94"] 1950 ± 1.5" 1200 ± 12 mm [4.71"] 2500 ± 25 mm [3.94"] 2540 ± .58" 1500 ± 12 mm [5.91"] 3000 ± 30 mm [11.81"] | Stock type R.020 015 0800 111 R.020 015 1000 111 R.020 015 1200 111 R.020 015 1500 111 R.020 015 1800 111 R.020 015 2000 111 R.020 015 2500 111 R.020 015 3000 111 R.020 045 0800 111 R.020 045 1000 111 R.020 045 1200 111 R.020 045 1500 111 R.020 045 1800 111 R.020 045 2000 111 R.020 045 2500 111 R.020 045 3000 111 |

Pin assignment:

| Signal | Wire colour |
|----------------|-------------|
| 0 V, GND | white |
| U_B | brown |
| A | green |
| \overline{A} | yellow |
| B | grey |
| \overline{B} | pink |
| I | blue |
| \overline{I} | red |

Shield is on the housing



1 Mät punkt

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

