



1) On request.

- 2) Cable lengths >10 m only possible with supply voltage >10 V.
- 3) With magnetic ring mounting method 2 or 3 on request.



| Incremental, large hollow shaft magnetic | RLI200 (hollow shaft) | Push-pull / RS422 |
|---|--|-------------------|
| Accessories / Display type 572 | | Order no. |
| Position display, 6-digit | with 4 fast switch output: and serial interface with 4 fast switch output: and scalable analog outp | 6.572.0116.D05 |
| Position display, 8-digit | with 4 fast switch output: and serial interface | s 6.572.0118.D05 |
| | with 4 fast switch output and scalable analog outp | |

Further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories.

Additional connectors can be found in the connection technology section or in the connection technology area of our website at: www.kuebler.com/connection_technology.

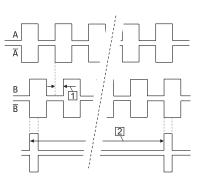
Technical data

| Mechanical characteristics | | | | | |
|----------------------------|--------------------|--|--|--|--|
| Maximum speed | | 12000 min ⁻¹ | | | |
| Protection | Model 1 Model 2 | IP67 acc. to EN 60529 IP68 / IP69k acc. to EN 60529, DIN 40050-9 and humidity tested acc. to EN 60068-3-38, EN 60068-3-78 | | | |
| Working temperature | | -20 °C +80 °C [-4 °F +176 °F] | | | |
| Shock resistance | | 5000 m/s², 1 ms | | | |
| Vibration resistance | | 300 m/s ² , 10 2000 Hz | | | |
| Pole gap | | 2 mm from pole to pole | | | |
| Housing (sensor head) | | aluminum | | | |
| Cable | | 2 m [6.56'] long, PUR 8 x 0.14 mm ² [AWG 26], shielded, may be used in trailing cable installations | | | |
| Status LED | green red | pulse-index error; speed too high or magnetic fields too weak | | | |
| CE compliant acc | . to | EMC guideline 2014/30/EU RoHS guideline 2011/65/EU | | | |

| Electrical characteristics | | | | | | |
|--------------------------------|-----------------------------------|--------------------------|---------|-------------------------------|--|--|
| Output circuit | RS422 | | Push-pu | Push-pull | | |
| Supply voltage | 4.8 26 | 4.8 26 VDC | | 4.8 30 VDC | | |
| Power consumption (no load) | | typ. 25 mA max. 60 mA | | typ. 25 mA max. 60 mA | | |
| Permissible load / channel | 120 Ohm | 120 Ohm | | +/- 20 mA | | |
| Min. pulse edge interval | 1 µs | | 1 µs | | | |
| Signal level HIGH LOW | | - | | min. +V - 2.0 V max. 0.5 V | | |
| Reference signal | index periodical ¹⁾ | | | | | |
| System accuracy | typ. 0.3° with shaft tolerance g6 | | | | | |
| Pulse rate [ppr] ²⁾ | 700 | 2240 | 2800 | 7000 | | |
| max. speed min ⁻¹ | 12000 | 6600 | 5300 | 2100 | | |
| | 1600 | 5120 | 6400 | 16000 | | |
| max. speed min ⁻¹ | 9300 | 2900 | 2300 | 900 | | |

Signal figures

- 1 Pulse edge interval: Pay attention to the instructions in the technical data 2 Periodic index signal every 2 mm [0.08"] ;
- the logical assignment A, B and O-signal can change



| Incremental, large hollow shaft | |
|---------------------------------|-----------------------|
| magnetic | RLI200 (hollow shaft) |
| | |

Terminal assignment

| Output circuit | Type of connection | Cable (isolate unused cores individually before initial start-up) | | | | | | | | | |
|----------------|--------------------|---|-----|----|----|----|----|----|----|----|----------------------|
| 1.2 | 1 . ^ | Signal: | 0 V | +V | А | Ā | В | B | 0 | ō | Ŧ |
| 1, 2 | I, A | Core color: | WH | BN | GN | YE | GY | PK | BU | RD | shield ¹⁾ |

Supply voltage encoder +V DC +V:

0 V: Supply voltage encoder ground GND (0 V)

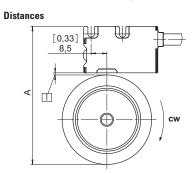
A, Ā: Incremental output channel A / cosine signal

В, <u></u>В: Incremental output channel B / sine signal

0, 0: Reference signal

Plug connector housing (shield) ÷:

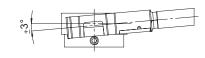
Mounting orientation and permissible mounting tolerances



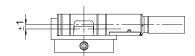
1 Distance sensor head / magnetic ring: 0.1 ... 1.0 (0.4 [0.02] recommended)

| Pulse rate | A | | | | |
|-------------------------|---|--|--|--|--|
| | for distance sensor head / magnetic ring = 0.4 mm [0.02] | | | | |
| 700, 2240, 2800, 7000 | 112.5 [4.43] | | | | |
| 1600, 5120, 6400, 16000 | 227.7 [8.96] | | | | |



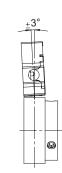


Push-pull / RS422



Tilting

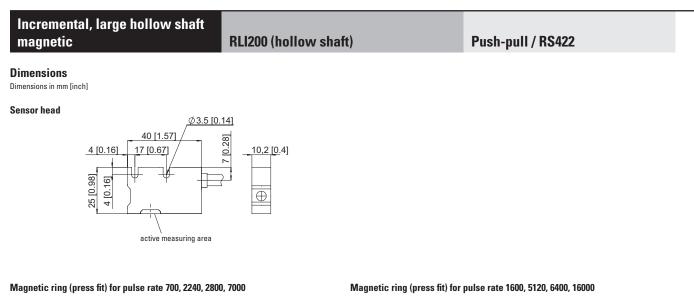
Offset

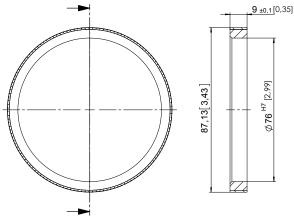


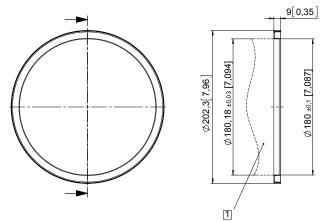
Warning: When mounting the sensor head, please ensure its correct orientation to the magnetic ring!











1 Customer shaft