

QR30-360HA-V-K02C-M8

Angular sensor

Analog output
0 - 5 V

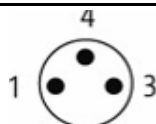
Operating voltage
7 - 30 Vdc

Measuring range
0 .. 360°



QR30-360HA-V-K02C-M8

| |
|----------------------------|
| Housing |
| Dimensions |
| Mounting |
| Protection |
| Humidity |
| Weight |
| Supply voltage |
| Current consumption |
| Polarity protection |
| Operating temperature |
| Storage temperature |
| Measuring range |
| Accuracy |
| Resolution |
| Max hysteresis |
| Integral non linearity |
| Repeatability |
| Magnet |
| Magnet misalignment |
| Magnet distance to sensor |
| Magnet type |
| Direction of magnetization |
| Response time |
| Output signal |
| Short circuit protection |
| Output load resistor |
| Status LED |
| Cable |
| Connector |



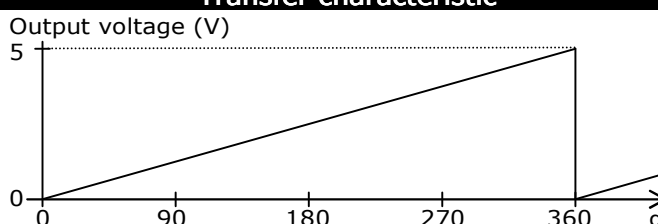
Angular sensor

| |
|---|
| Quadro30: PBT black |
| 30 x 30 x 15 mm |
| 4x stainless M3x16 mm screws |
| IP67 |
| 0 - 100% |
| ca 50 gram (excl. cable) |
| 7 - 30 Vdc |
| ≤25 mA |
| Yes |
| -25...+85°C |
| -25...+85°C |
| 0 .. 360° (continuous) |
| 12 bit f.s. (min step 0,088°) |
| 0,088° |
| < ±1,4° (in magnet misalignment range) |
| 0,12° |
| ± 0,25 mm off axis |
| Between 0,5 - 3 mm |
| 8x5,5x11,2 mm Neodymium/N35/nickel coated/remanention 1,16-1,24 T |
| Axial in 8 mm (North pole is marked) |
| < 10 ms |
| 0 - 5 V |
| Max 10 s |
| ≥ 20 kOhm |
| Optional |
| 0,2 m PVC, black Ø 4,6mm, wires: 3x0,34 mm2 |
| 3p M8 male |
| Pin 1 + Supply voltage Brown |
| Pin 4 Analog output Black |
| Pin 3 Gnd Blue |

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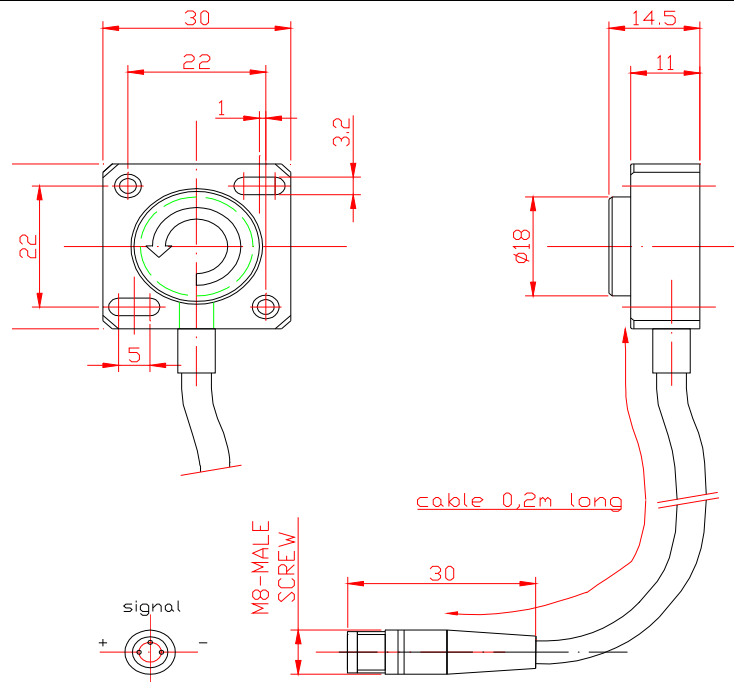
$V_{out} = \alpha \cdot 5 / 360$ (V)
where α is in degrees

Transfer characteristic



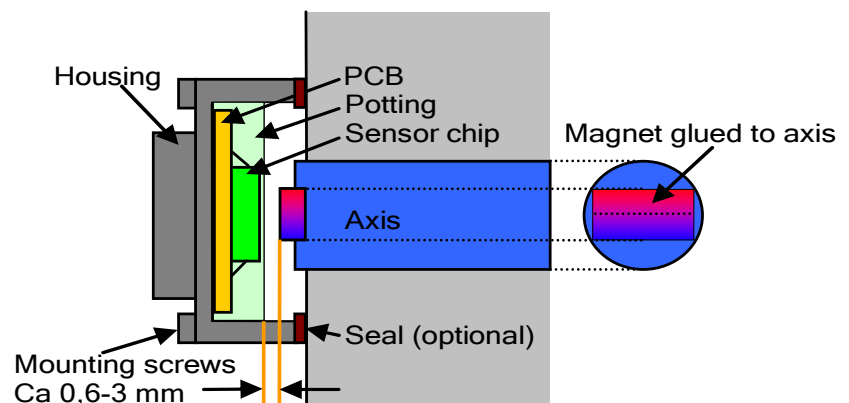
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Dimensions



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Application example



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The magnet is drawn in the 0° position.

90° position: N pole towards cable.

Magnet position

