## **QR** series



QR40-360HB-IK

## Absolute rotary encoder (contactless)

Output 4 - 20 mA

Supply voltage 10 - 30V dc

Measuring range 360°



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	General specifications 10495, v20200323
Housing	Quadro40: PBT black
Dimensions (indicative)	40x40x22 mm
Mounting	Included: 2x M4x25 stainless steel pozidrive pan head screws, self-tapping (PZ DIN7500CZ)
Ingress Protection (IEC 60529)	IP66
Relative Humidity	0 - 95% (non condensing, fully potted)
Weight	approx 75 gr (excl. cable)
Shaft	Stainless steel Ø 6 mm
Shaft type	D-form
Shaft bearing	Polyamide (glass-filled), Radial force < 1Nm, Axial force < 8N (push & pull)
Shaft length	8 mm
Supply voltage	10 - 30V dc
Polarity protection	Yes
Current consumption	≤ 50 mA ( excluding output signal )
Operating temperature	-25 to 80°C
Storage temperature	-25 to 85°C
Measuring range	360°
Programmable center position	Yes (12 mA / 180°)
Accuracy	
Resolution	11 bit over 360° (min. step 0,18°)
Sensitivity error	±0.5% typ. (@20°C), ±1% typ. (full Temp. range)
Offset error	± 1% (after centering)
Non linearity	< ± 1,4°
Repeatability	0,26°
Response time	< 10 ms
Max speed	15 rpm
Output signal	4 - 20 mA
Short circuit protection	Yes (T<55°C), Max 10 s (T>55°C)
Output load resistor	Rload $\leq 50$ *Vs - 250 [ $\Omega$ ] (Eg: Vs = 24 V: Rload $\leq$ 950 $\Omega$ )
Connection (length ±10%)	Cable 2 m PVC/PVC Liyy, black Ø 4,6 mm, wires: 4x0,25 mm² Sensor colors (static usage)
Wire coding	Brown + Supply voltage Black Output Blue Gnd White Center input

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