## **QR** series



QR40-360HB-VK-5V

## Absolute rotary encoder (contactless)

Output 0 - 5 V (ratiometric to 5 V supply voltage)

Supply voltage 5V dc

Measuring range 360°





	General specifications 12646, 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	5V dc
Polarity protection	No
Current consumption	≤ 50 mA
Operating temperature	-25 to 80°C
Storage temperature	-25 to 85°C
Measuring range	360°
Programmable center position	Yes (2,5 V / 180°)
Accuracy	
Resolution	12 bit over 360° (min. step 0,09°)
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	
Output signal	0 - 5 V (ratiometric to 5 V supply voltage)
Short circuit protection	Yes (T<55°C), Max 10 s (T>55°C)
Output load resistor	≥ 20 kΩ
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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