



- Industrial standard housing Ø58 mm
- Up to 5000 ppr
- Hollow shaft
- 10 V ... 30 V with short-circuit proof push-pull output

Product description

Compatibility says it all for this incremental rotary encoder.

All six output channels are fitted for this incremental rotary encoder. It can thus be used universally in many different applications.

Focussing on the designs that are most often required has allowed us to offer rapid availability at an attractive price.

The pulse disk is designed in plastic up to 1500 pulses. Beyond that, glass is used.

This incremental rotary encoder is available as hollow shaft design with a shaft Ø10 mm, Ø12 mm or Ø15 mm.

The rotary encoder is held in place by an included torque rest.

The electrical connection is made with a cable connector.

RHI58N-*****1



Technical data

General specifications

Pulse count (ppr) max. 5000

Electrical specifications

Operating voltage 10 ... 30 V DC

No-load supply current I_0 max. 50 mA

Output

Output type push-pull, incremental

Voltage drop U_d < 3 V

Operating current max. per channel 40 mA, short-circuit proof (not with U_D), reverse polarity protected

Output frequency max. 200 kHz

Rise time 400 ns

Connection

Cable Ø7.8 mm, 6 x 2 x 0.14 mm², 1 m

Standard conformity

Protection degree DIN EN 60529, IP54

Climatic testing DIN EN 60068-2-3, no moisture condensation

Emitted interference DIN EN 61000-6-4

Interference rejection DIN EN 61000-6-2

Shock resistance DIN EN 60068-2-27, 100 g, 3 ms

Vibration resistance DIN EN 60068-2-6, 10 g, 10 ... 2000 Hz

Ambient conditions

Operating temperature -5 ... 80 °C (268 ... 353 K), movable cable
-20 ... 80 °C (253 ... 353 K), fixed cable

Storage temperature -40 ... 100 °C (233 ... 373 K)

Mechanical specifications

Material

Housing aluminium, powder coated

Flange aluminium 3.1645

Shaft stainless steel 1.4305

Mass approx. 290 g

Rotational speed max. 6000 min⁻¹

Moment of inertia ≤ 40 gcm²

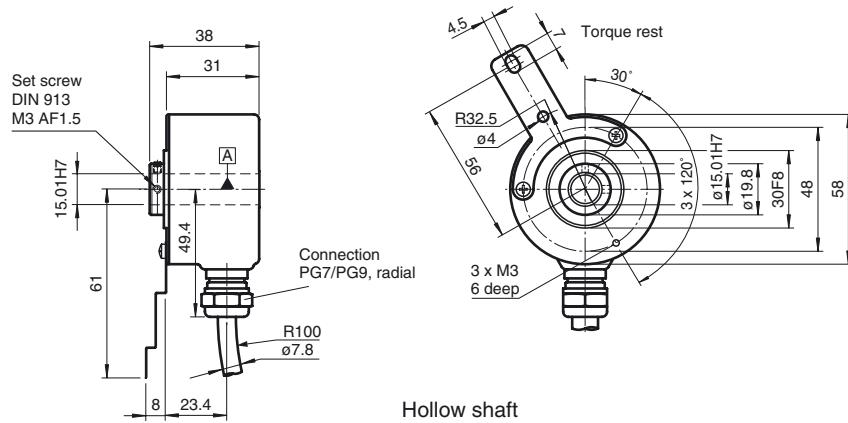
Starting torque ≤ 1.5 Ncm

Shaft load

Angle offset 1 °

Axial offset max. 1 mm

Dimensions



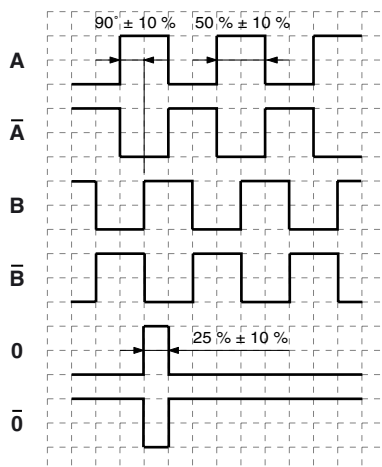
Hollow shaft

Electrical connection

Signal	Cable Ø7.8 mm, 12-core
GND	White
U _b	Brown
A	Green
B	Grey
\bar{A}	Yellow
\bar{B}	Pink
0	Blue
$\bar{0}$	Red
U _b Sens ^{*)}	Violet
GND Sens ^{*)}	Black
Screen	-

^{*)} only for devices with 5 V supply and RS 422 interface

Signal outputs



P cw - with view onto the shaft

Order code

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