



- Industrial standard housing Ø58 mm
- Up to 5000 ppr
- Hollow shaft
- 5 V with RS 422 interface

## 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.

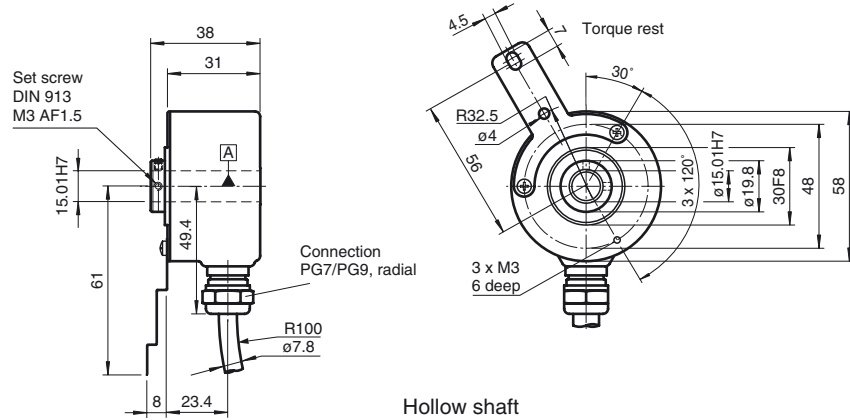
RHI58N-\*\*\*\*\*6



## Technical data

<b>General specifications</b>	
Pulse count (ppr)	max. 5000
<b>Electrical specifications</b>	
Operating voltage	5 V DC ± 5 %
No-load supply current $I_0$	max. 70 mA
<b>Output</b>	
Output type	RS 422, incremental
Operating current	max. per channel 20 mA , conditionally short-circuit proof (not with $U_b$ )
Output frequency	max. 200 kHz
Rise time	100 ns
<b>Connection</b>	
Cable	Ø7.8 mm, 6 x 2 x 0.14 mm <sup>2</sup> , 1 m
<b>Standard conformity</b>	
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
<b>Ambient conditions</b>	
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)
<b>Mechanical specifications</b>	
<b>Material</b>	
Housing	aluminium, powder coated
Flange	aluminium 3.1645
Shaft	stainless steel 1.4305
Mass	approx. 290 g
Rotational speed	max. 6000 min <sup>-1</sup>
Moment of inertia	≤ 40 gcm <sup>2</sup>
Starting torque	≤ 1.5 Ncm
<b>Shaft load</b>	
Angle offset	1 °
Axial offset	max. 1 mm

**Dimensions**



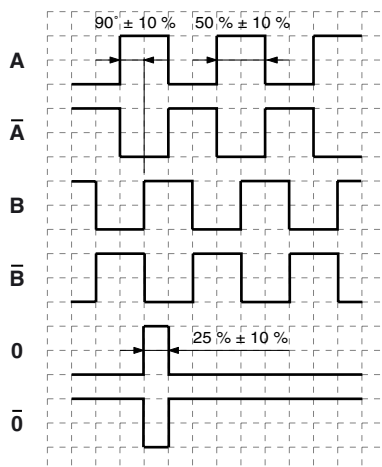
Hollow shaft

**Electrical connection**

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

<sup>\*)</sup> only for devices with 5 V supply and RS 422 interface

**Signal outputs**



P cw - with view onto the shaft

Order code

