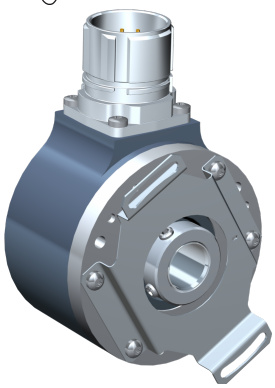
Encoder model

RHI 504

Part number

539614-01



Ruggedized Hollow shaft encoder, Incremental

- Robust Ø58 mm encoder with hollow shaft
- Short-circuited protected outputs
- IP67 at housing, IP66 at shaft inlet
- High temperature version

Mechanical data

Operating temperature	-20 °C...+100 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 300 m/s²
Shock [IEC 60068-2-27]	≤ 2000 m/s²
Shaft load max (axial/radial)	10 N / 20 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel
Cover material	Aluminium (Anodized)
Weight	300 g

Encoder configuration

Type	RHI
Model	504 High temperature (100 °C)
Shaft type	Ø12 mm blind hollow shaft
Flange type	58/59-flange with stator coupling
Resolution	500 ppr
Power supply	9-30 Vdc
Output signal	RS422
Connection type	M23 connector 12-pin
Connecting direction	Radial
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)

Electrical data

Polarity protected	Yes
Short circuit protected incremental outputs	Yes
Current consumption (No load)	25 mA at 24 Vdc (Max. 40 mA)
Incremental output load (max)	± 20 mA
Output frequency max	300 kHz
Cable length max	1000 m
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

8 Sep 2026 Specification can be changed without prior notice.

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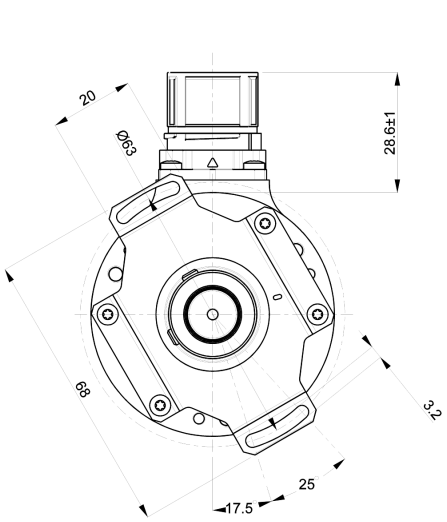
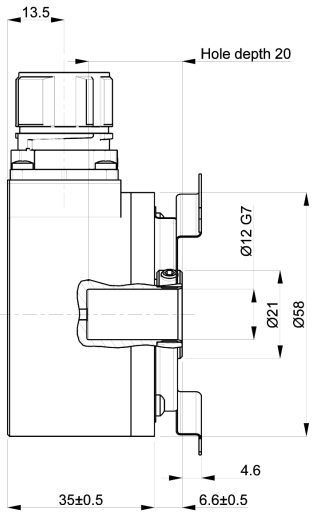
Dimensions

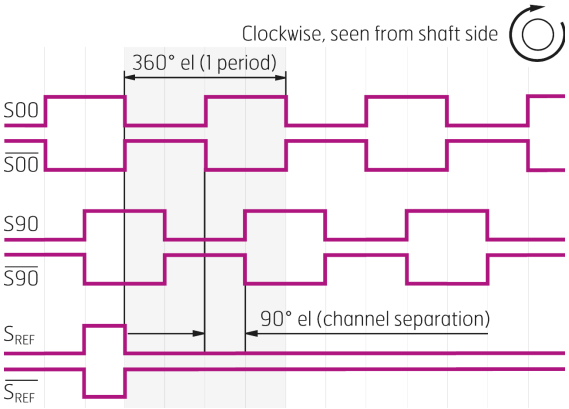




Pin Configuration

Function	Pin
S90	8
S90 inverted	1
S00	5
S00 inverted	6
+E V	12
0V	10
Sref	3
Sref inverted	4
STATUS	7

Output signal



Order information

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