

**Ruggedized Hollow shaft encoder, Incremental**

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

**Mechanical data**

Operating temperature	-40 °C...+70 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 300 m/s ²
Shock [IEC 60068-2-27]	≤ 2000 m/s ²
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	503 Standard
Shaft type	Ø12 mm blind hollow shaft
Flange type	56/57-flange
Resolution	1024 ppr
Power supply	5 Vdc
Output signal	TTL
Connection type	Cable
Connecting direction	Radial
Cable length	10,00 m
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)

Electrical data

Polarity protected	No
Short circuit protected incremental outputs	Yes
Current consumption (No load)	45 mA (Max. 75 mA)
Incremental output load (max)	± 20 mA
Output frequency max	300 kHz
Cable length max	50 m at 50 kHz
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

