

Datasheet

Encoder RSI 58H

Stock-in the state of the state

Resolution

Max. pulses per revolution up to 5000 PPR PPR

Mechanical Data	
Housing	
Flange	hollow shaft (through-bored)
Flange material	aluminium
Housing cap	die cast aluminium, powder coated
Torque supports	incl. 1 torque support WDGDS10001
- 1. Spring plate compensation	axial: ±0.8 mm, radial: ±0.2 mm
- Max. operating speed	6000 rpm up to max. protection rating +60 °C
Housing	Ø 58 mm
Shaft(s)	
Shaft material	stainless steel
Starting torque	approx. 2.2 Ncm at ambient temperature
Fixing	permanently attached clambing ring
Shaft	Ø 12 mm, Ø 10 mm with adapter sleeve
Shaft length	L: 44.5 mm
Max. Permissible shaft loading radial	80 N
Max. Permissible shaft loading axial	60 N
Bearings	
Bearings type	2 precision ball bearings
Nominale service life	1 x 10'9 revs. at 100 % rated shaft load 1 x 10'10 revs. at 40 % rated shaft load 1 x 10'11 revs. at 20 % rated shaft load
Max. operating speed	6000 rpm

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- · Rugged industrial standard encoder
- Housing cap die cast aluminium, with particularly eco-friendly powder coating
- Up to 5000 PPR by use of high grad electronics
- Thru-Bore
- · High protection class IP65, with oil seal
- Maximum mechanical and electrical safety
- High noise immunity
- Full connection protection with 10 VDC up to 30 VDC

Machinery Directive: basic data safety integrity level			
MTTF _d	200 a		
Mission time (TM)	25 a		
Nominale service life (L10h)	1 x 10'11 revs. at 20 % rated shaft load and 6000 rpm		
Diagnostic coverage (DC)	0 %		

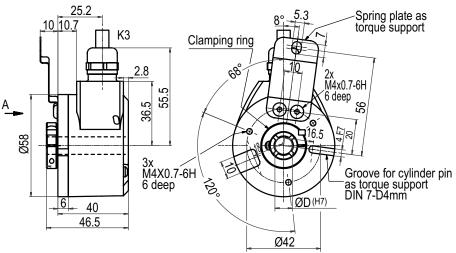
Electrical Data	
Power supply/Current consumption	5 VDC up to 30 VDC: max. 70 mA 10 VDC up to 30 VDC: max. 100 mA
Output circuit	HTL, inv.
Pulse frequency	HTL ≤ 5000 ppr: max. 200 kHz
Channels	AB ABN and inverted signals
Load	max. 40 mA / channel
Circuit protection	10 VDC up to 30 VDC only
Accuracy	_
Phase offset	90° ± max. 7.5 % of the pulse length
pulse-/pause-ratio	50 % ± max. 7 %
General Data	
Weight	approx. 220 g
Connections	cable or connector, radial
Protection rating (EN 60529)	IP65 all around
Operating temperature	Connector: -20 °C up to +85 °C, cable: -20 °C up to -80 °C
Storage temperature	Connector: -30 °C up to +85 °C, cable: -20 °C up to +80 °C

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



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Cable connection K3 with 2 m cable



Description ABN inv. poss.

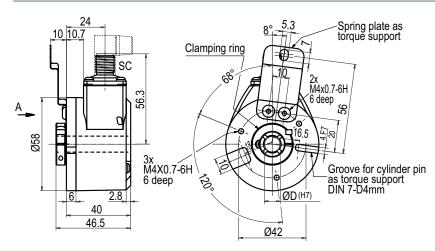
K3 radial, shield not connected

Assignments		
	КЗ	
Circuit	R24 R30	
GND	WH	
+UB	BN	
Α	GN	
В	YE	
N	GY	
Light reserve warning	-	
A inv.	RD	
B inv.	BK	
N inv.	VT	
Shield	flex	



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Sensor-connector (M12x1) SC, 8-pin



Description ABN inv. poss.

SC8 radial, 8-pin, Connector connected to encoder housing

Assignments		
	SC8	
	8-pin	
	3 6 5	
Circuit	R24 R30	
GND	1	
+UB	2	
Α	3	
В	4	
N	5	
Light reserve warning	-	
A inv.	6	
B inv.	7	
N inv.	8	
n. c.	-	
Shield	-	



RS Stock No. **PPR** 5 - 30 VDC, HTL, inv. Connector 8-pin 10 - 30 VDC, HTL, inv. 5 - 30 VDC, HTL, inv. Cable 10 - 30 VDC, HTL, inv.

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