

# Datasheet Encoder RSI 58H



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	
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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RS Stock No. 7951116
RS Stock No. 7951110
<b>RS Stock No. 7951129</b>
RS Stock No. 7951122
RS Stock No. 7951126
RS Stock No. 7951135
<b>RS Stock No. 7951138</b>
<b>RS Stock No. 7951132</b>
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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 <sub>d</sub>	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		

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

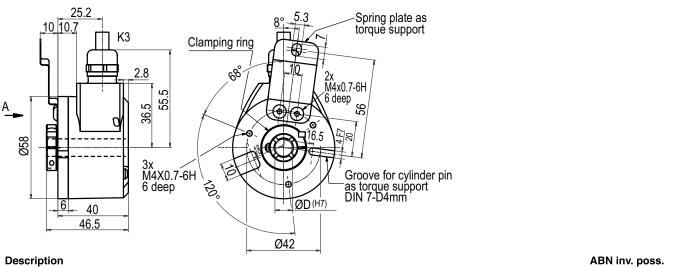
RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



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#### Cable connection K3 with 2 m cable



#### Description

К3 radial, shield not connected

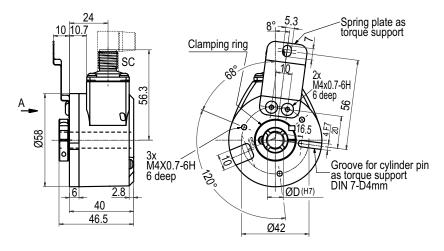
Assignments		
	К3	
Circuit	R24 R30	
GND	WH	
+UB	BN	
Α	GN	
В	YE	
Ν	GY	
Light reserve warning	-	
A inv.	RD	
B inv.	BK	
N inv.	VT	
Shield	flex	

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

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<b>RS Stock No.</b>	PPR		
7951113	50		
7951116	200		
7951110	256		
7951129	360	5 - 30 VDC, HTL, inv.	
7951122	500	5 - 50 VDC, TTL, IIIV.	
7951126	512	Connector 8-	Connector 8-pin
7951135	1024		
7951138	2048		
7951132	3600	10 - 30 VDC, HTL, inv.	
7951141	4096		
7951144	5000		
7951148	50		
7951157	200		
7951150	256		
7951154	360	5 - 30 VDC, HTL, inv.	
7951163	500		
7951166	512		Cable
7951160	1024		
7951179	2048		
7951172	3600	10 - 30 VDC, HTL, inv.	
7951176	4096		
7951185	5000		

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