

Features

- 100-5000 ppr. Resolution
- Incremental encoder output: Push-Pull, TTL, Linedriver or HLD output
- 58 mm case diameter
- 6-8-10-12-14-15 mm rod diameter
- 3500 rpm max.
- Hollow shaft or semi hollow shaft case

RS PRO Motion Control Sensor

Optic Rotary Incremental Encoder

Stock No.. 100443, 100445, 100446, 100424, 100425, 100426, 100427, 100447, 100448, 100449, 100451

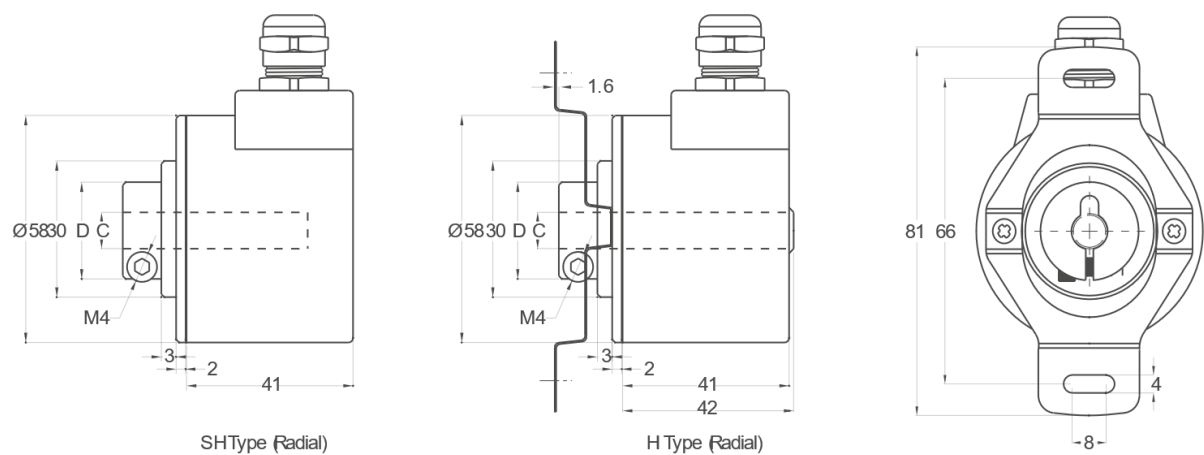


RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

Series designed as compact, highly robust, rotary motion control sensors, using incremental optic measuring technology, up to 5000 ppr. resolution.
Series provides angular speed & displacement feedback for wide range of industrial applications.

Mechanical Specifications



PRI 58SH / H	SH (semi hollow) / H (hollow)	
	C	D
	Ø6mm	20mm
	Ø8mm	22mm
	Ø10mm	23,5mm
	Ø12mm	23,5mm
	Ø14mm	29,5mm
	Ø15mm	29,5mm

Push-Pull Cable Output
+V : Brown
0V : White
GND: Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray

TTL - HLD - Linedri ver Cable Output
+V : Brown
0V : White
GND: Shield
Ch A : Yellow
Ch B : Green
Ch Z : Gray
Ch A inv: Blue
Ch B inv: Red
Ch Z inv: Pink

General Specifications

Resolution	100-5000 ppr.
Output channels	A,B,Z or AA,BB, ZZ
Output type	TTL, Linedriver, Push-Pull, HLD
Power supply	5 VDC, 5-24 VDC or 8-24 VDC
Power consumption(without load)	<40 mA (24 VDC)
Cable	2.5 meter (standard) 5 wire + shield (Push-Pull) 2.5 meter (standard) 8 wire + shield (Linedriver)
Maximum permissible shaft loading radial	Radial: 100N Axial: 60N
Displacement speed	3500 rpm
Rod diameter	Ø6-8-10-12-14-15 mm
Rod material	Stainless steel
Case dimension	Ø58 mm
Case material	Aluminium and painted steel
Protection level	IP 54
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Approvals

Declarations	CE, UKCA, ROHS, REACH
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Articles In Series

RS PRO Part Number	MPN	Hollow Shaft Diameter	Output	Resolution	Power Supply	Connector / Cable
	0100443	12	Push Pull A, B, Z	1024 ppr.	5-24 VDC	2,5 meter cable
	0100445	12	Push Pull A, B, Z	500 ppr.	5-24 VDC	2,5 meter cable
	0100446	12	Push Pull A, B, Z	5000 ppr.	5-24 VDC	2,5 meter cable
	0100424	12	Line driver A, A', B, B' Z, Z'	1024 ppr.	5 VDC	2,5 meter cable
	0100425	12	Line driver A, A', B, B' Z, Z'	1024 ppr.	5 VDC	2,5 meter cable
	0100426	12	Line driver A, A', B, B' Z, Z'	2500 ppr.	5 VDC	2,5 meter cable
	0100427	12	Line driver A, A', B, B' Z, Z'	5000 ppr.	5 VDC	2,5 meter cable
	0100447	12	Push Pull A, B, Z	1024 ppr.	5-24 VDC	2,5 meter cable
	0100448	12	Push Pull A, B, Z	2500 ppr.	5-24 VDC	2,5 meter cable
	0100449	12	Push Pull A, B, Z	500 ppr.	5-24 VDC	2,5 meter cable
	0100451	12	Push Pull A, B, Z	5000 ppr.	5-24 VDC	2,5 meter cable