

FEATURES

- Robust construction for industrial use
- Protection to IP67, shaft sealed to IP65
- High electrical immunity
- Full connection protection with 10 VDC up to 30 VDC
- Housing cap die cast aluminum, with particularly eco-friendly powder coating

RS PRO Rotary Encoders

RS Stock No.: 2061282



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.

Rotary Encoders



Product Description

Incremental encoder are used to easily measure speed, position, angles or length. The possible application ranges are lifts, cranes, cleaning machines, road marking, wind energy and much more. There they are used e.g. to optimize the process or to assure quality. But although easy applications with just a Display connected to do some measurements are possible.

General Specifications

Encoder Technology	incremental quadrature, optical
Pulses Per Revolution	360 ppr
Connection Type	Cable
Mounting Type	Synchro Flange

Electrical Specifications

Supply Voltage	5VDC to 30VDC
Current Rating	typ. 70 mA
Output Signal Type	HTL inverted / Push-Pull
Switching Frequency	max. 200 kHz
Channels	ABN
Load	Maximum 40mA / channel
Signal level mA	at 20 mA
Signal level H>	H > Vcc - 10 % Vcc
Signal level L<	L < 2.5 VDC
Circuit Protection	No
Reverse Polarity Protection	Yes
Short-Circuit Proof	No
Phase Shift	90° ± max. phase error 7,5% of a period duration
Duty Cycle	≤5000 PPR: 50 % max. ±7 %
Reference Signal	Zero pulse, width 90° ±7,5% of a period duration



Mechanical Specifications

Overall Height	55 mm
Overall Width	58 mm
Overall Depth	58 mm
Dimensions	55 x 58 x 58
Weight	approx. 230 g
Bearing Type	2 Precision Ball Bearings

Housing	
Flange	Synchro Flange
Flange Diameter	58 mm
Flange Material	Aluminum
Housing Cap	Die-Cast Aluminum, Powder Coated
Maximum Operating Speed	10000 rpm

Shafts	
Shaft Type	Ø 6 x 12 mm Shaft, flattened shaft
Material	Stainless Steel
Diameter	6 mm
Length	12 mm
Starting Torque	approx. 0.5 Ncm at ambient temperature
Max. Permissible Shaft Loading Radial	125N
Max. Permissible Shaft Loading Axial	70N

Operation Environment Specifications

Maximum Operating Temperature	+80°C
Minimum Operating Temperature	-20°C
Storage Temperature Range	-30°C to 80°C
Vibration	50m/s ² (10-2000 Hz)
Shock	1000m/s ² (6 ms)



Protection Category

IP Rating	IP65

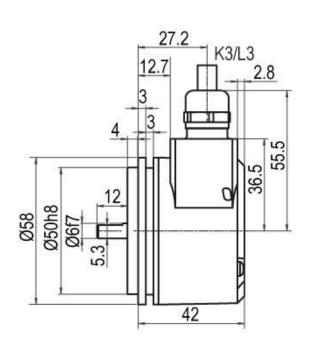
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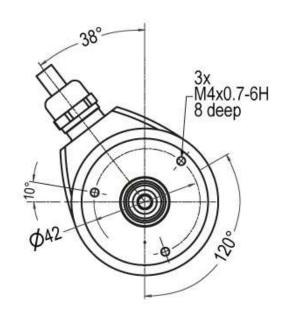
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UNSPSC 22.0601	39121527

Approvals

Compliance/Certifications	
Declarations	







Assignments

Assignments	
GND	WH
(+) Vcc	BN
A	GN
В	YE
N	GY
A inv.	RD
B inv.	BK, (BU at ACA)
N inv.	VT
Shield	flex

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