

FEATURES

- Very compact construction for use in harsh conditions
- Permissible bearing loads similar to "big encoders"
- Hall effect based signal generation

RS PRO Rotary Encoders

RS Stock No.: 2061279



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, magnetic
Pulses Per Revolution	1024 ppr
Connection Type	cable
Mounting Type	Synchro Flange

Electrical Specifications

Supply Voltage	5VDC to 30VDC
Current Rating	typ. 40mA
Output Signal Type	HTL / Push-Pull
Switching Frequency	Max. 200 kHz
Channels	ABN
Load	Max. 30mA / 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	No
Short-Circuit Proof	No
Phase Shift	90° ± max. phase error 7,5% of a period duration
Duty Cycle	1024 PPR: 50 % max. +18 %
Reference Signal	Zero pulse, width 90° ±7,5% of a period duration



Mechanical Specifications

Overall Height	30mm
Overall Width	30mm
Overall Depth	42mm
Dimensions	30 x 30 x 42
Weight	50g
Bearing Type	2 Precision Ball Bearings

Housing	
Flange	Synchro Flange
Flange Diameter	30mm
Flange Material	aluminium
Housing Cap	aluminium
Maximum Operating Speed	12000rpm

Shafts	
Shaft Type	Ø 6 x 12 mm Shaft, flattened shaft
Material	Stainless Steel
Diameter	6mm
Length	12mm
Starting Torque	Approx. 0.2 Ncm at Ambient Temperature
Max. Permissible Shaft Loading Radial	80N
Max. Permissible Shaft Loading Axial	50N

Operation Environment Specifications

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

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Protection Category

IP Rating	IP40

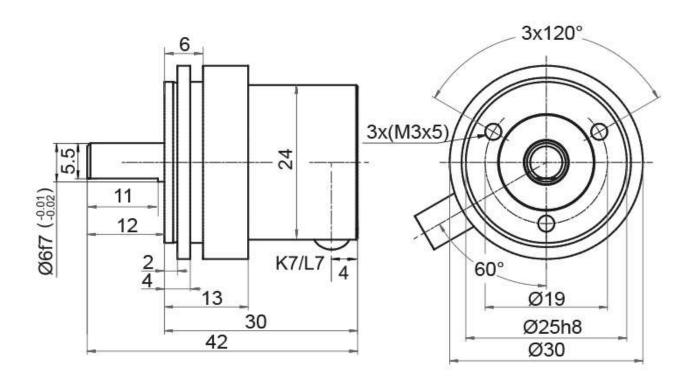
Classification

eCI@ss 11.1	27270501
UNSPSC 22.0601	39121527

Approvals

Compliance/Certifications	CE / DIN EN 61000-4-2 / DIN EN 61000-4-4
Declarations	





Assignments

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