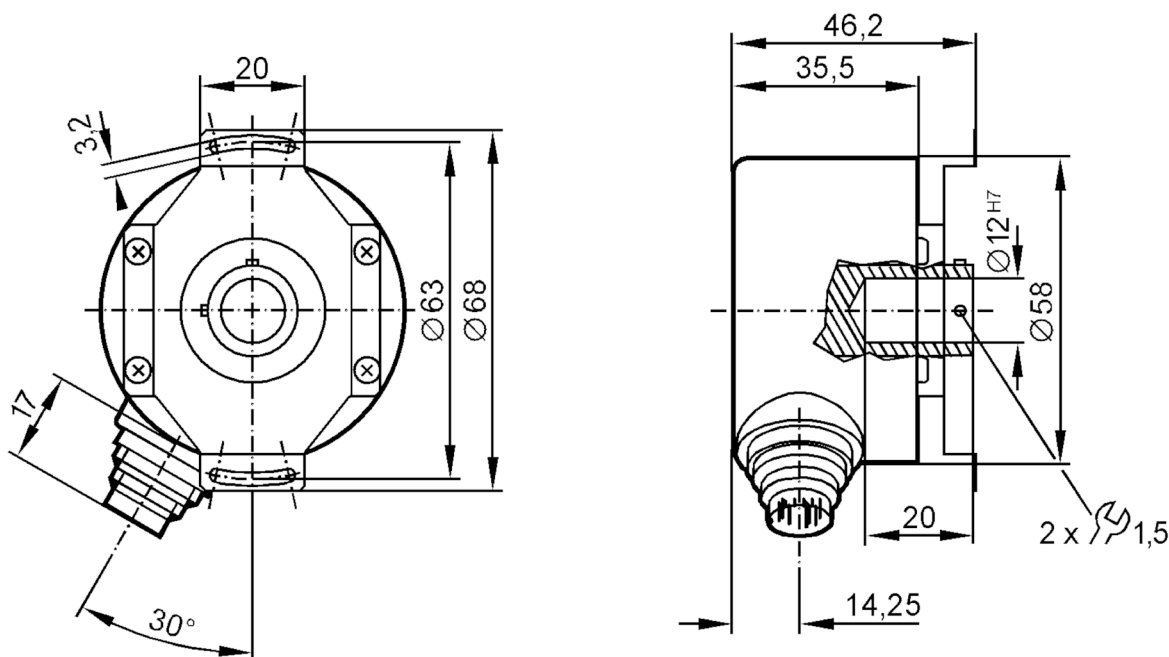


Incremental encoder with hollow shaft

RO-0500-I05/T U

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Product characteristics

Resolution	500 resolution
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	12

Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	< 150

Outputs

Electrical design	TTL
Max. current load per output [mA]	20
Switching frequency [kHz]	300
Phase difference A and B [°]	90

Measuring/setting range

Resolution	500 resolution
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Operating conditions

Ambient temperature [°C]	-30...96
Note on ambient temperature	Up < 18 V: -30...100 °C
Storage temperature [°C]	-30...100
Max. relative air humidity [%]	98
Protection	IP 64

RO1359



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Tests / approvals

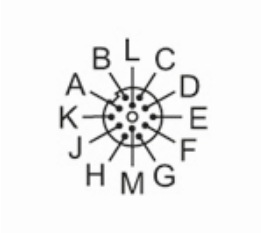
Shock resistance	100 g (6 ms)
Vibration resistance	10 g (55...2000 Hz)

Mechanical data

Dimensions [mm]	Ø 58 / L = 46.2
Materials	aluminium
Max. revolution, mechanical [U/min]	12000
Max. starting torque [Nm]	2.5
Reference temperature torque [°C]	20
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	12
Shaft fit	H7
Shaft material	stainless steel
Installation depth of shaft [mm]	10
Max. axial shaft misalignment [mm]	1; (max. radial shaft alignment: ± 0,05 mm)

Electrical connection

Connector: 1 x M18, radial



A	B inverted
B	Ub sensor
C	0 index
D	0 index inverted
E	A
F	A inverted
G	failure inverted
H	B
K	0V Un
L	0V sensor
M	L+ Up
screen	housing

Diagrams and graphs

Pulse diagram	<p>direction of rotation clockwise (looking at the shaft)</p>
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