RO6356

Incremental encoder with hollow shaft

RO-0250-I24/K U

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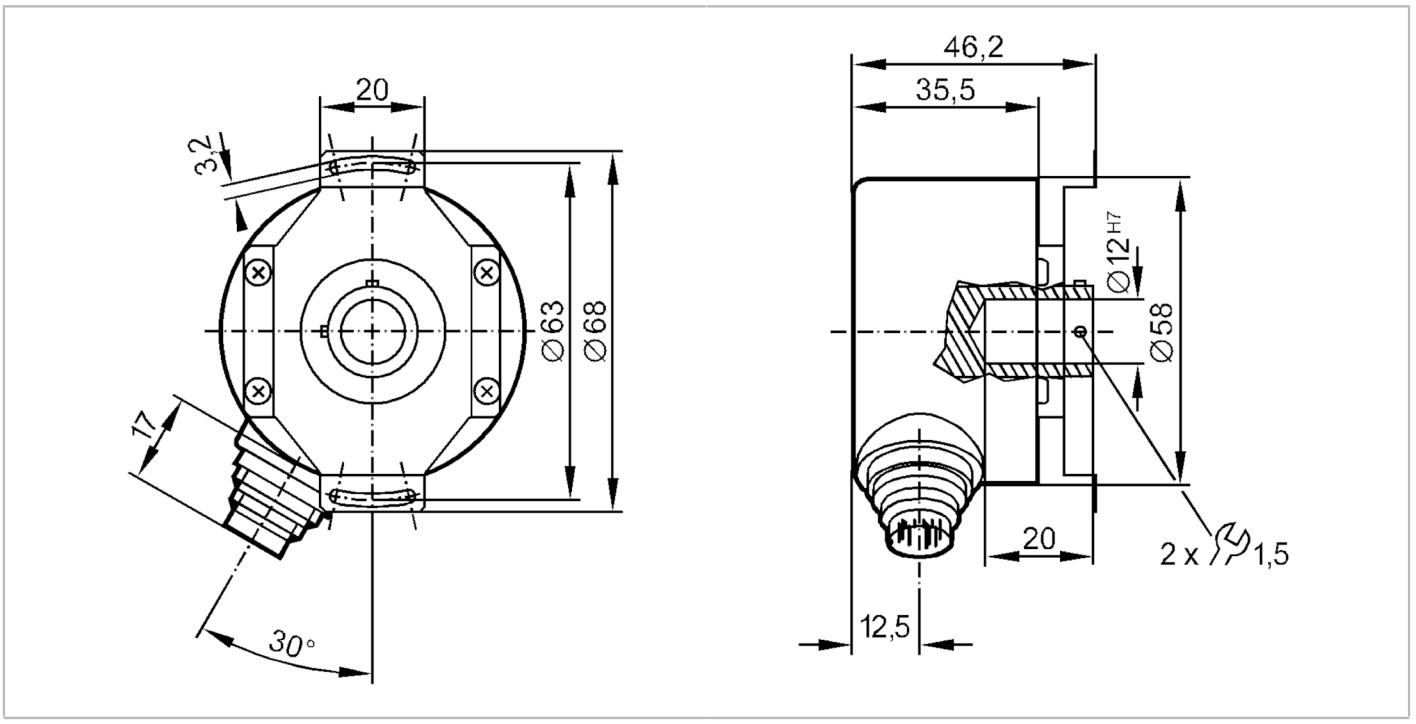

CE

Product characteristics		
Resolution		250 resolution
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	12
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 200
Outputs		
Electrical design		HTL
Max. current load per output	[mA]	20
Switching frequency	[kHz]	160
Type of short-circuit protection		< 60 s
Phase difference A and B	[°]	90
Measuring/setting range		
Resolution		250 resolution
Operating conditions		
Ambient temperature	[°C]	-30...94
Note on ambient temperature		Up < 18 V: -30...100 °C
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64

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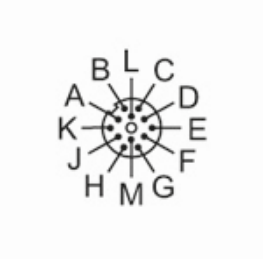
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		15 g (55...2000 Hz)

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

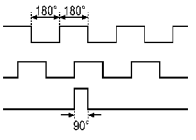
Connector: 1 x M18 (ifm 1001.4), radial



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



direction of rotation clockwise (looking at the shaft)