RB6058

Incremental encoder with solid shaft

RB-0060-I24/S

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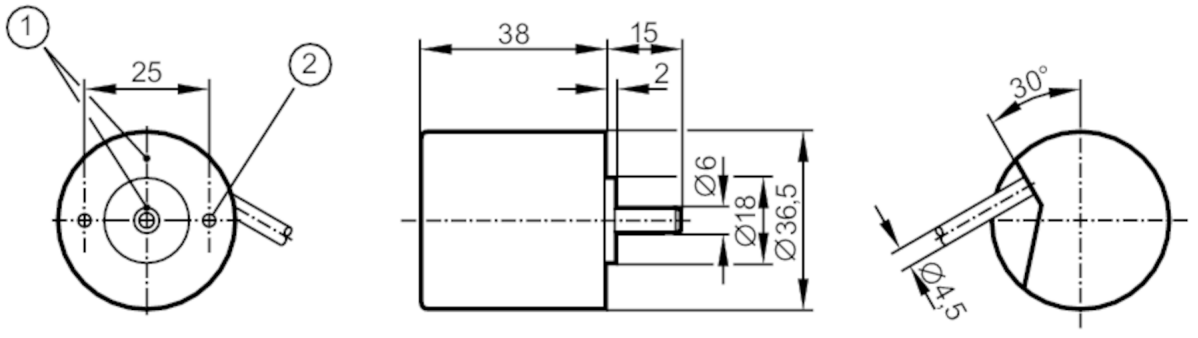

1 reference mark
2 M3 Depth 5 mm

CE

Product characteristics		
Resolution		60 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	6
Application		
Special feature		Halogen-free
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	150
Outputs		
Electrical design		HTL
Max. current load per output	[mA]	50
Switching frequency	[kHz]	160
Type of short-circuit protection		< 60 s
Phase difference A and B	[°]	90
Measuring/setting range		
Resolution		60 resolution
Operating conditions		
Ambient temperature	[°C]	-20...70
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)

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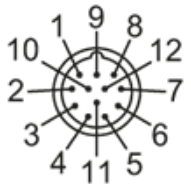
Mechanical data		
Dimensions	[mm]	Ø 36.5 / L = 38
Materials		aluminium
Max. revolution, mechanical	[U/min]	10000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	5
Max. shaft load radial (at the shaft end)	[N]	10

Electrical connection

Cable: 0.3 m, PUR, Halogen-free

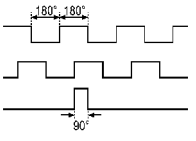
Connector: 1 x M23 (ifm 1001.6)



1	0V B
2	n.c.
3	0 index
4	0V 0 index
5	A
6	0V A
7	failure inverted
8	B
9	n.c.
10	0V
11	n.c.
12	10...30V
Screen	housing

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)