

RU-0200-I24/LA

The technical drawing consists of two views of a mechanical component:

- Front View (Left):** A circular cross-section with a diameter of $\varnothing 42$. It features three holes arranged in a triangular pattern with a 120° angle between them. One hole is labeled '1' and another '2'. A fillet with a radius of $R17$ is shown at the bottom left, angled at 30° .
- Side View (Right):** A longitudinal section showing the internal profile. Key dimensions include:
 - Total length: 46^{-1}
 - Distance from left face to first step: 15
 - Distance between steps: 10
 - Distance from last step to right face: 4
 - Internal bore diameter: $\varnothing 50^{+0.07}_{-0}$
 - External diameter at the end: $\varnothing 58$
 - Internal thread section: $\varnothing 6$
 - Bottom flange thickness: $12,5$
 - Internal chamfer: 3
 - Internal slot width: 3
 - A feature labeled '3' points to a specific internal detail.

CE

Resolution	200 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	150

Electrical design	HTL
Max. current load per output [mA]	50
Switching frequency [kHz]	300
Type of short-circuit protection	< 60 s
Phase difference A and B [°]	90

Resolution	200 resolution
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Ambient temperature	[°C]	-20...85
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64



Incremental encoder with solid shaft

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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
Materials	aluminium
Max. revolution, mechanical [U/min]	12000
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]	10
Max. shaft load radial (at the shaft end) [N]	20
Fixing flange	synchro-flange

Electrical connection

Cable: 10 m, PUR; axial

brown	A
green	A inverted
grey	B
pink	B inverted
red	0 index
black	0 index inverted
blue	L+ sensor
white	0V sensor
brown/green	L+ (Up)
white/green	0V (Un)
lilac	failure inverted
screen	housing

Diagrams and graphs

Pulse diagram	direction of rotation clockwise (looking at the shaft)
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