

RU-0060-I24/L2

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 width: 46^{-1}
 - Top flange thickness: 10
 - Internal step height: 4
 - Bottom flange thickness: 3
 - Internal bore diameter: $\varnothing 50^{+0.07}_{-0}$
 - External bore diameter: $\varnothing 6$
 - Internal thread section length: $12,5$
 - Internal feature depth: 3
 - Overall height: $\varnothing 58$

- CE

Resolution	60 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 und B [°]	90

Resolution	60 resolution
------------	---------------

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



Incremental encoder with solid shaft

RU-0060-I24/L2

Tests / approvals

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

Mechanical data

Dimensions [mm]	Ø 58 / L = 46
Material	aluminum
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

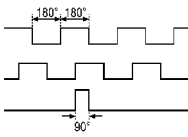
Electrical connection

Cable: 2 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	error inverted
screen	housing

Diagrams and graphs

Pulse diagram



Direction of rotation clockwise (looking at the shaft)