



- TTL output driver for cable length up to 550 m
- High resistance to shock and vibrations
- EURO flange B10 / solid shaft $\varnothing 11$ mm
- Large terminal box, turn by 180°



BMU10-RYTN1B10KLK-4

Technical data - electrical ratings

Voltage supply	9...30 VDC 5 VDC $\pm 5\%$
Consumption w/o load	≤ 100 mA
Pulses per revolution	2048
Phase shift	$90^\circ \pm 20^\circ$
Duty cycle	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 120 kHz ≤ 300 kHz (on request)
Output signals	K1, K2, K0 + inverted Error output (option EMS)
Output stages	HTL-P (power linedriver) TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	CE UL approval / E217823

Technical data - mechanical design

Flange	EURO flange B10
Protection EN 60529	IP 66
Operating speed	≤ 12000 rpm (mechanical)
Operating torque typ.	2 Ncm
Rotor moment of inertia	212 gcm^2
Material	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	$-40...+100^\circ\text{C}$ $-25...+100^\circ\text{C}$ (>3072 pulses) $-50...+100^\circ\text{C}$ (optional)

Connection

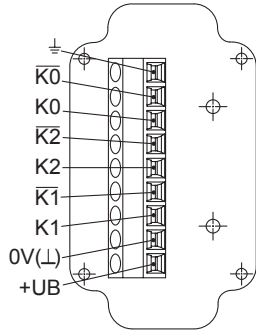
Weight approx.

Terminal box
2x terminal box (with option M)
1,9 kg
2,1 kg (with option M)

Terminal assignment

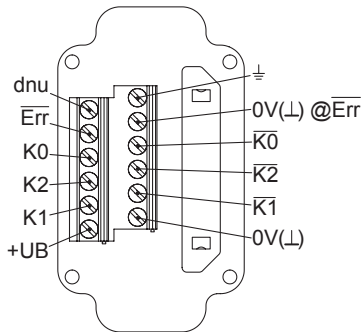
View A (see dimension)

Connecting terminal terminal box, radial



Option EMS: View A (see dimension)

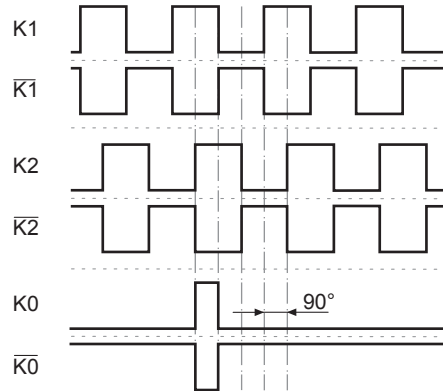
Connecting terminal terminal box, radial



Output signals

HTL/TTL

At positive rotating direction (see dimension)



Terminal significance

+UB	Voltage supply
0V (⊥)	Ground
⊥	Earth ground (housing)
K1	Output signal channel 1
K1-bar	Output signal channel 1 inverted
K2	Output signal channel 2 (offset by 90° to channel 1)
K2-bar	Output signal channel 2 inverted
K0	Zero pulse (reference signal)
K0-bar	Zero pulse inverted
Err	Error output (option EMS)
dnu	Do not use

Technical drawing of the M20x1.5 connector showing side and front views with dimensions.

Side View Dimensions:

- Overall height: $\varnothing 115$
- Inner height: $\varnothing 85_{H6}$
- Inner diameter: $\varnothing 11_{k6}$
- Length of the inner section: 30
- Length of the outer section: 36
- Length of the mounting flange: 7.5
- Overall length: 140

Front View Dimensions:

- Overall width: $\varnothing 105$
- Mounting holes: 4 holes, $M20 \times 1.5$
- Feature 2: A small circular feature at the top center, labeled with a circled 2.

