

Serie ESM 46L

Order key

ESM46L.1111
Manual Pulse Spezial

Release
Sampling rate
Detent torque
Vibrations
Shock
Torque
Rotation life (Detent torque)

1 % = 3,6°
Max. 5 kHz
4 Ncm (20 °C)
20 m/s² = 50 Hz
50 G / 11 ms
< 0,2 Ncm (20 °C)
1 x 10⁶ Umdr.

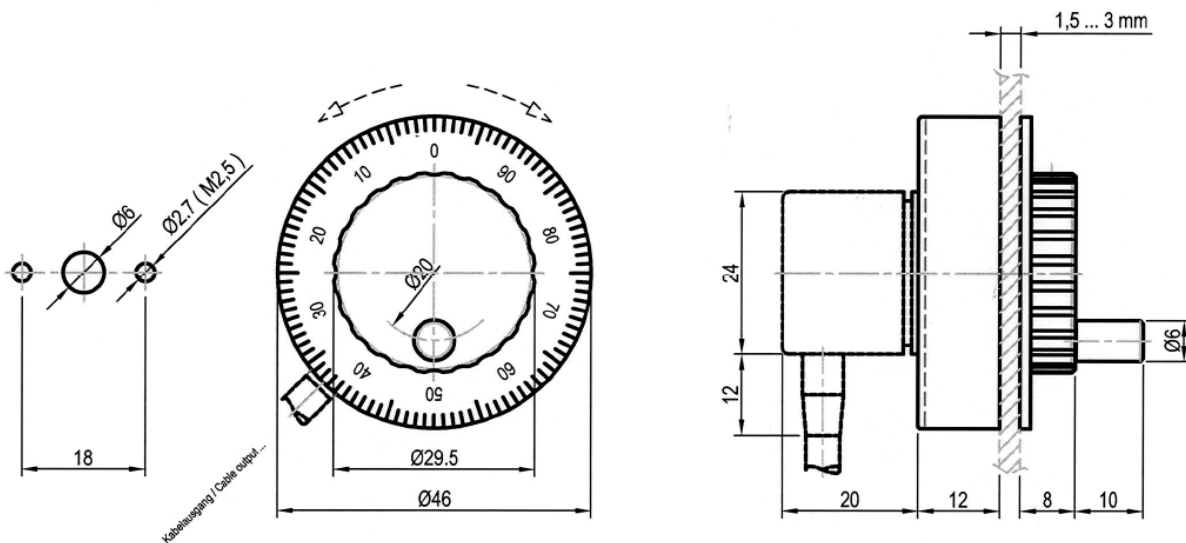
Encoder Type

Interface
Supply voltage
Cable output
Pulses

ESI24.1122.0100 (8000.00.119)
Push-Pull / Invertation
5 ... 24 VDC
radial (1 m)
100

Dimensional drawing

Incl. 2x fastening bolts M2.5 x 6 mm (not install without frontpanel)
Fixation (knob with scale) M3 (SW 1.5 mm)



Mecanical variables (Encoder)

Rotation speed
Torque of inertia of the rotor ca. 0.1 x 10⁻⁶ kgm²
Start torque
Shaft toughness radial
Shaft toughness axial
Protection class after EN 60529
Working temperature range
Operating temperature range
Shaft not grinding steel
Shock resistance after DIN-IEC 68-2-27
Vibrations resistance after DIN-IEC 68-2-27
Weight:

max. 12000 min⁻¹
<0.001 Nm
10 N
20 N
IP 64 gehäuseseitig
-20 °C ... +85 °C
-20 °C ... +90 °C
1000 m/s² 2.6 ms
100 m/s², 55 ... 2000 Hz
ca. 150g

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Electrical variables (Encoder)

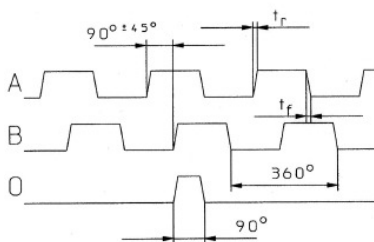
Output circuit	Push-pull
Supply voltage	5 ... 24 VDC
Power input (without load)	max. 50 mA
Load / channel	max. 50 mA
Pulse frequency	max. 160 kHz
Signal level high	min. $U_B = -2,5 \text{ V}$
Signal level low	max. 0,5 V
Rise time t_r	max. 1 μs
Drop-out time t_f	max. 1 μs
Short-circuit proof outputs	ja
CE-conform after	EN 50082-2, EN 50081-2 and EN 55011 class B

Elektrische Anschlüsse

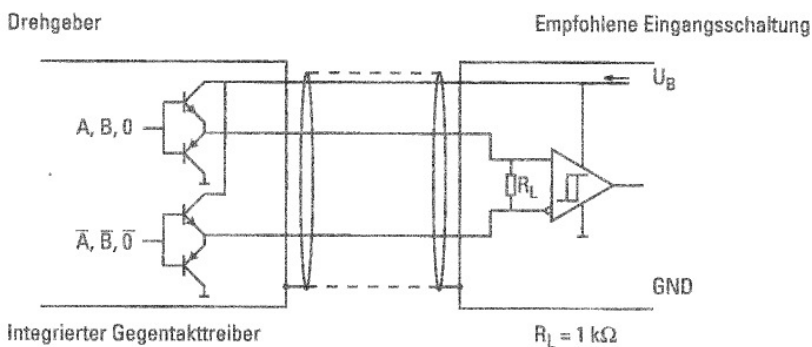
Signal	0V	+ Vcc	A	-A	B	-B	M	-M
Conductor coloring	white	brown	green	yellow	grey	magenta	blue	red

Unused circuit points are before starting to isolate

Output channel



Interface



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