

OG 8

Solid shaft \varnothing 11 mm with EURO flange B10

1...5000 pulses per revolution

Overview

- Robust aluminium housing
- Solid shaft \varnothing 11 mm
- Optical sensing method
- EURO flange B10
- Output stage HTL or TTL
- Output stage TTL with regulator UB 9...26 VDC



Technical data

Technical data - electrical ratings

Voltage supply	9...26 VDC 5 VDC \pm 5 %
Consumption w/o load	\leq 100 mA
Pulses per revolution	1 ... 5000
Phase shift	90 ° \pm 20°
Duty cycle	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	\leq 120 kHz \leq 300 kHz (on request)
Output signals	K1, K2, K0 + inverted
Output stages	HTL TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	CE UL approval / E217823

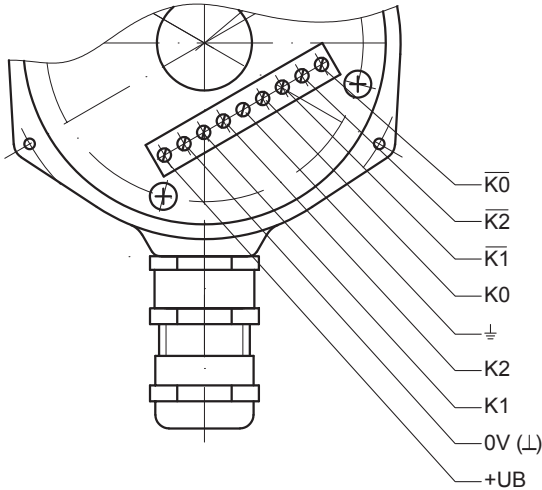
Technical data - mechanical design

Size (flange)	\varnothing 115 mm
Shaft type	\varnothing 11 mm solid shaft
Admitted shaft load	\leq 50 N axial \leq 60 N radial
Flange	EURO flange B10
Protection EN 60529	IP 54
Operating speed	\leq 12000 rpm (mechanical)
Operating torque typ.	1 Ncm
Rotor moment of inertia	18 gcm ²
Material	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	-30...+85 °C -25...+85 °C (>3072 pulses)
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Connection	Connecting terminal
Weight approx.	700 g

Terminal assignment

View A (see dimension)

Connecting terminal



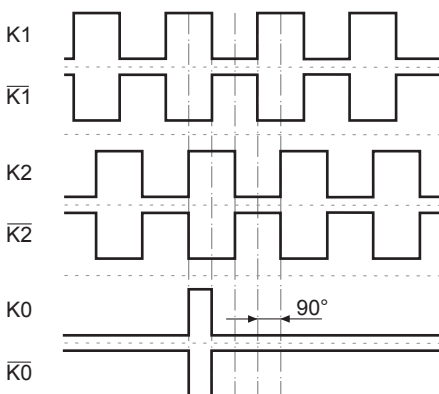
Terminal significance

+UB	Voltage supply
0V (L)	Ground
⊥	Earth ground (housing)
K1	Output signal channel 1
$\overline{K1}$	Output signal channel 1 inverted
K2	Output signal channel 2 (offset by 90° to channel 1)
$\overline{K2}$	Output signal channel 2 inverted
K0	Zero pulse (reference signal)
$\overline{K0}$	Zero pulse inverted

Output signals

HTL/TTL

At positive rotating direction (see dimension)

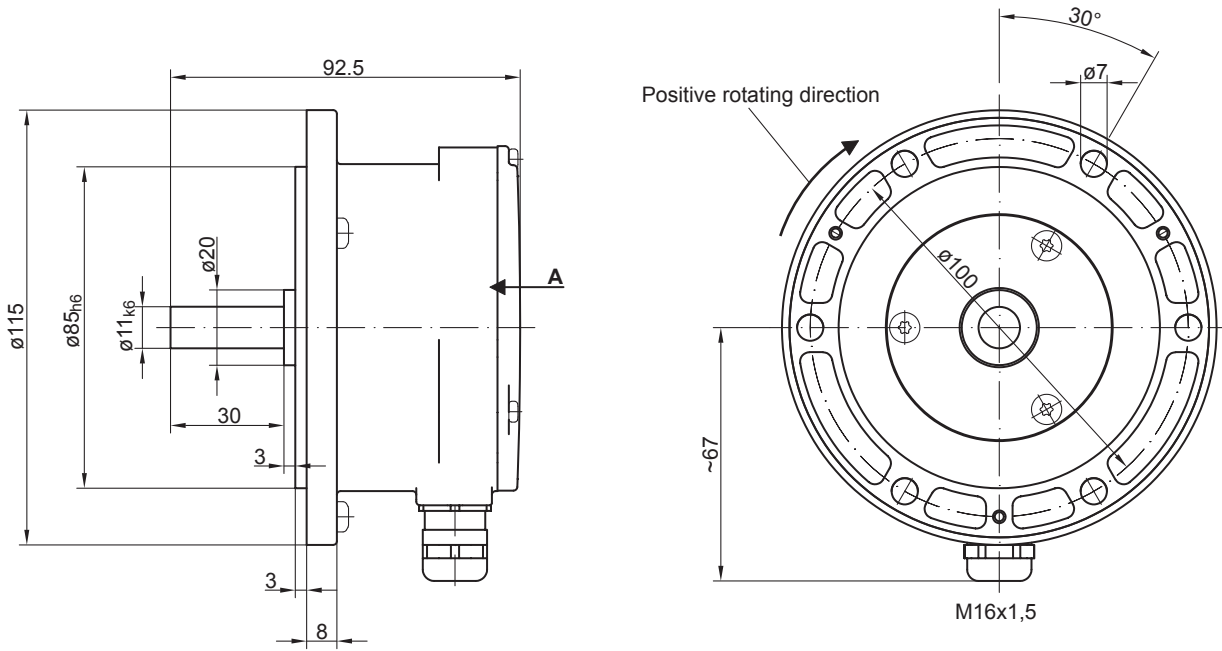


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Dimensions



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Ordering reference

	OG8	##	####	###
Product				
Incremental encoder	OG8			
Output signals				
K1, K2		D		
K1, K2, K0		DN		
Pulse number⁽¹⁾				
1 ⁽²⁾				1
2 ⁽²⁾				2
3 ⁽²⁾				3
4 ⁽²⁾				4
5 ⁽²⁾				5
6 ⁽²⁾				6
8				8
10 ⁽²⁾				10
11 ⁽²⁾				11
12 ⁽²⁾				12
15 ⁽²⁾				15
20				20
25				25
30				30
36				36
40				40
50				50
60				60
62				62
64				64
100				100
120				120
176				176
180				180
192				192
200				200
250				250
300				300
360				360
400				400
500				500
512				512
600				600
720				720
900				900
1000				1000
1024				1024
1042				1042
1200				1200
1250				1250
2048				2048
2500				2500
3072				3072
4096				4096
5000				5000

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Ordering reference

	OG8	##	####	###
Voltage supply / output stage				
9...26 VDC / output stage HTL (C)				C
9...26 VDC / output stage HTL (C) with inverted signals				CI
9...30 VDC / output stage TTL with inverted signals				R
5 VDC / output stage TTL with inverted signals				TTL

(1) Other pulse numbers on request.

(2) Only without zero pulse, version D

Accessories

Mounting accessories

 Spring disk coupling K 35 (shaft \varnothing 6...12 mm)

 Spring disk coupling K 50 (shaft \varnothing 11...16 mm)

 Spring disk coupling K 60 (shaft \varnothing 11...22 mm)

Connectors and cables

Sensor cable for encoders HEK 8

Diagnostic accessories

11075858 Analyzer for encoders HENQ 1100

11075880 Analyzer for encoders HENQ 1100 B