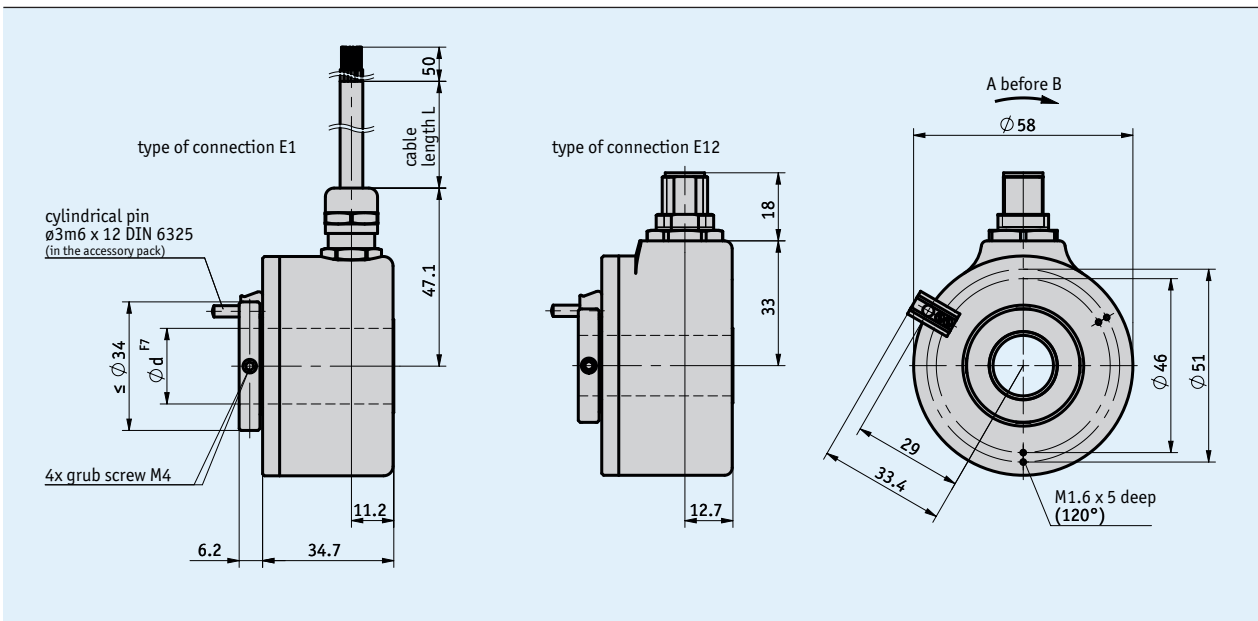


### Profile

- Resolution max. 5000 pulses/revolution
- Through hollow shaft up to max.  $\varnothing 28$  mm
- M12 or cable connection



### Mechanical data

Feature	Technical data	Additional information
Shaft	steel	
Housing	aluminum	
Speed	$\leq 2500$ rpm	
Moment of inertia	$\sim 3.5 \times 10^{-6}$ kgm <sup>2</sup>	
Starting torque	$< 0.1$ Nm at 20 °C	
Cable sheath	PVC	$\varnothing 4.5$ mm
Cable bending radius	27 mm	static
	68 mm	dynamic
Weight	$\sim 0.4$ kg	

## Electrical data

### OP output circuit

Feature	Technical data	Additional information
Operating voltage	8 ... 30 V DC	reverse polarity protected, the power-supply unit corresponds to Class 2 (UL 1310)
Current consumption	typical 40 mA	≤100 mA (no load)
Output signal level high	≥UB - 3.0 V	short-circuit proof
Output signal level low	≤2.5 V	short-circuit proof
Pulse frequency	≤200 kHz	
Load	±40 mA	max. adm.
Type of connection	open cable end 1x M12 connector	8-pole, 1x pin

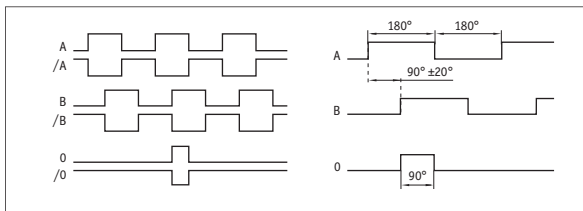
### LD5 output circuit

Feature	Technical data	Additional information
Operating voltage	5 V DC	reverse polarity protected, the power-supply unit corresponds to Class 2 (UL 1310)
Current consumption	typical 40 mA	≤90 mA (no load)
Output signal level high	≥2.5 V	short-circuit proof
Output signal level low	≤0.5 V	short-circuit proof
Pulse frequency	≤300 kHz	
Load	±20 mA	max. adm.
Type of connection	open cable end 1x M12 connector	8-pole, 1x pin

### LD24 output circuit

Feature	Technical data	Additional information
Operating voltage	8 ... 30 V DC	reverse polarity protected, the power-supply unit corresponds to Class 2 (UL 1310)
Current consumption	typical 40 mA	≤90 mA (no load)
Output signal level high	≥2.5 V	short-circuit proof
Output signal level low	≤0.5 V	short-circuit proof
Pulse frequency	≤300 kHz	
Load	±20 mA	max. adm.
Type of connection	open cable end 1x M12 connector	8-pole, 1x pin

### signal pattern



## System data

Feature	Technical data	Additional information
Approval	UL	UL 61010-1, File No. E503367

### Characteristics of functional safety

Feature	Technical data	Additional information
MTTFd	63.4 year(s)	

## Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-20 ... 70 °C	at speed $\leq 2000 \text{ min}^{-1}$
	-20 ... 60 °C	at speed $\leq 2500 \text{ min}^{-1}$
EMC	EN 61000-6-2	interference resistance / immission
	EN 61000-6-3	emitted interference / emission
Safety regulations	UL 61010-1	Indoor use, outdoor use possible, not intended for use involving direct exposure to UV light. Environment dry / wet. Protection class III as per EN 61140. Pollution degree 2 as per EN 61010. Maximum humidity 93% at 40 °C.
Protection category	IP64	EN 60529 (protection type not yet reviewed by UL)
Shock resistance	1000 $\text{m/s}^2$ , 6 ms	EN 60068-2-27
Vibration resistance	100 $\text{m/s}^2$ , 35 ... 2000 Hz	EN 60068-2-6

## Pin assignment

Signal	E1	E12
GND	white	1
+UB	brown	2
A	green	3
/A	yellow	4
B	gray	5
/B	pink	6
0	blue	7
/0	red	8

**Scope of delivery:** IH5828, Quick Start Guide

**Accessories you can find:**

Electronic display MA10/4

Electronic display MA48

Electronic display MA55

Cable extension KV08S2

Mating Connector Overview

Mating connector, 8-pole, socket

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