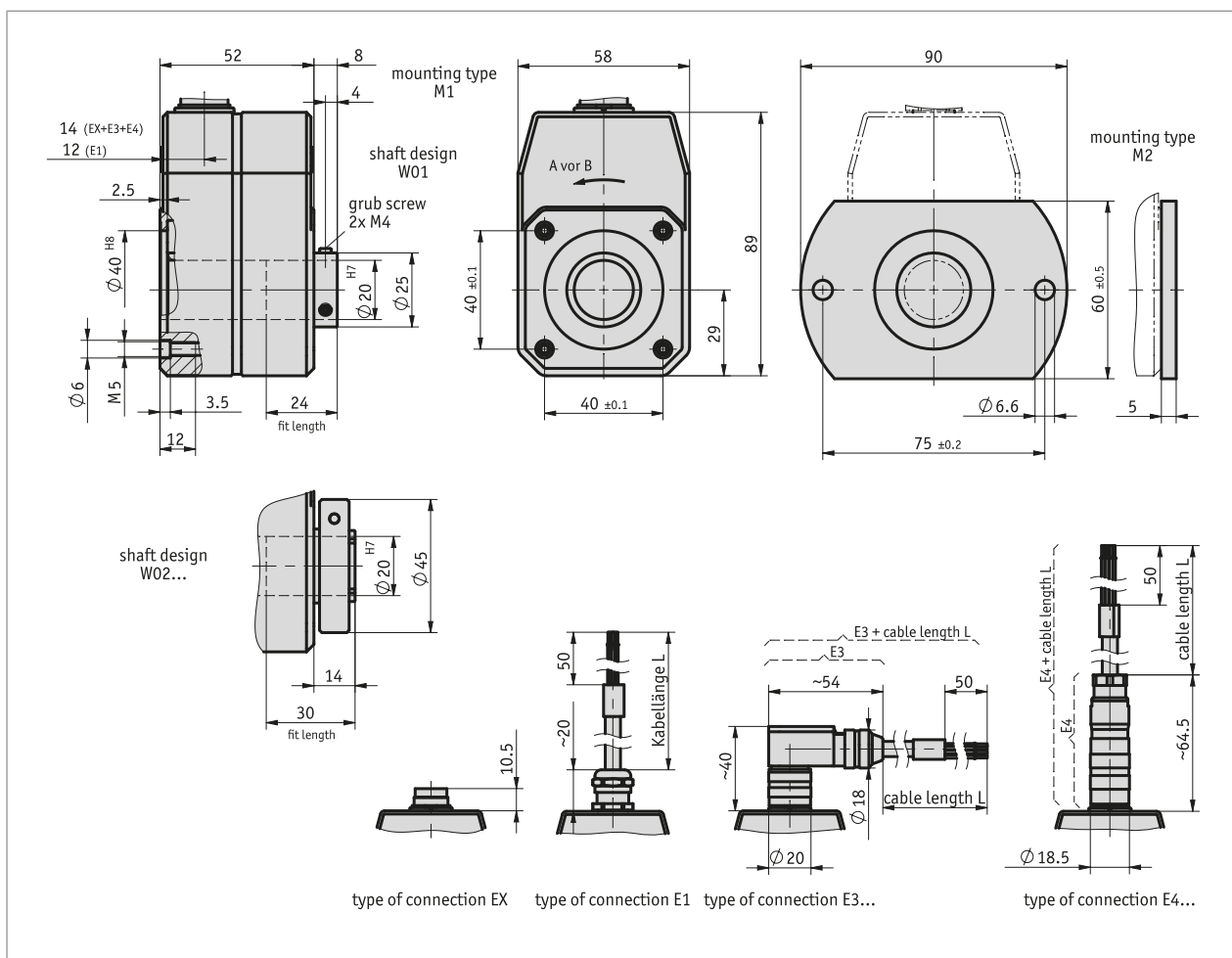


- Resolutions of max. 1024 pulses/revolution
- Through hollow shafts up to $\varnothing 20$ mm
- Housing made of zinc die-cast
- High shaft load rating, radial 5600 N, axial 1400 N



Mechanical data

Feature	Technical data	Additional information
Shaft	black-finished steel	
Housing	zinc, die-cast	
Speed	≤6000 min ⁻¹	IP64
	≤3000 min ⁻¹	IP65
Moment of inertia	~28.5 × 10 ⁻⁶ kgm ²	W01 shaft design
	~58.5 × 10 ⁻⁶ kgm ²	W02 shaft design
Starting torque	≤6 Ncm at 20 °C	IP64
	≤10 Ncm at 20 °C	IP65
Shaft load rating	1400 N, axial	
	5600 N, radial	
Cable sheath	PVC	
Weight	~0.75 kg	

Electrical data

■ PP output circuit

Feature	Technical data	Additional information
Operating voltage	10 ... 30 V DC	reverse polarity protection
Current consumption	40 mA, typical	without load (AB0 output signals)
Output signal level high	UB - 2 V	
Output signal level low	≤1 V at 40 mA	
Pulse frequency	≤80 kHz	
Phasing	90° ±30°	
Load	±40 mA, short-circuit proof	max. adm.

■ OP output circuit

Feature	Technical data	Additional information
Operating voltage	10 ... 30 V DC	reverse polarity protection
Current consumption	40 mA, typical	without load (AB0 output signals)
Output signal level high	UB - 2 V	
Output signal level low	≤1 V at 40 mA	
Pulse frequency	≤80 kHz	
Phasing	90° ±30°	
Load	±40 mA, short-circuit proof	max. adm.

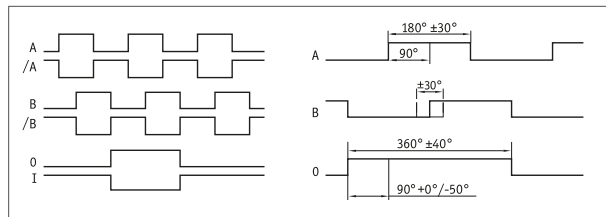
■ LD output circuit

Feature	Technical data	Additional information
Operating voltage	5 V DC ±5 %	no reverse polarity protection
Current consumption	40 mA, typical	without load (AB0 output signals)
Output signal level	RS422 A spec.	
Pulse frequency	≤50 kHz	
Phasing	90° ±30°	
Load	±40 mA, short-circuit proof	max. adm.

■ LD24 output circuit

Feature	Technical data	Additional information
Operating voltage	10 ... 30 V DC	no reverse polarity protection
Current consumption	40 mA, typical	without load (AB0 output signals)
Output signal level	RS422 A spec.	
Pulse frequency	≤50 kHz	
Phasing	90° ±30°	
Load	±40 mA, short-circuit proof	max. adm.

Signal image



Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	0 ... 60 °C	
Storage temperature	-20 ... 85 °C	
Protection category	IP64, IP65	EN 60529
Shock resistance	2000 m/s ² , 6 ms	EN 60068-2-27
Vibration resistance	100 m/s ² , 50 Hz	EN 60068-2-6

pin assignment

PP output circuit

Signal	E1	EX, E3, E4
GND	gray	1
A	yellow	2
B	white	3
0/I	green	4
+UB	brown	5
nc		6
nc		7

Output circuit OP

Output signals ABO

Signal	E1	EX, E3, E4
A	yellow	A
B	white	B
0	green	C
/A	Pink	D
/B	blue	E
I	violet	F
GND	gray	G
GND	black	H
+UB	brown	J
+UB	red	K
nc		L
nc		M

OP output circuit

Signal	E1	EX, E3, E4
GND	gray	1
A	yellow	2
B	white	3
nc		4
+UB	brown	5
/A	Pink	6
/B	blue	7

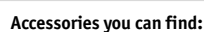
Output circuit LD, LD24

Signal	E1	EX, E3, E4
A	yellow	A
/A	green	B
GND	gray	C
+UB	Pink	D
B	white	E
/B	brown	F
+SUB only with LD5	red	G
SGND only with LD5	blue	H
0	red-blue	J
0	gray-pink	K
GND	black	L
+UB	violet	M

- **Ordering table**

■ **Order key**

IG07 - [] - [] - [] - [] - [] - [] - [] - [] - SV - SG
A B C D E F G H



Cable extension KV07S0
Cable extension KV12S0, KV07S0KV07S0

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