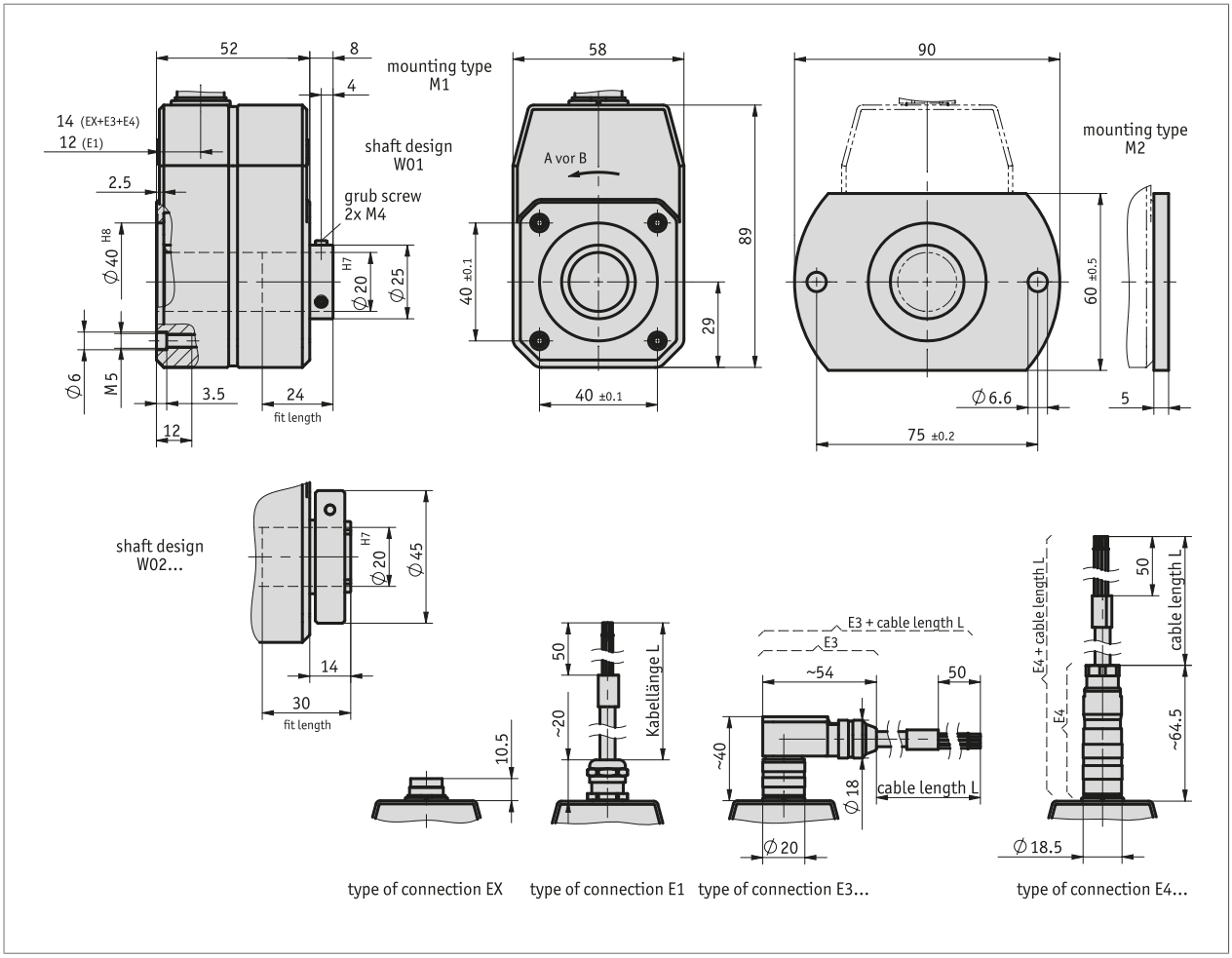
Housing made of zinc die-cast with through hollow shaft

Profile

- Resolutions of max. 1024 pulses/revolution
- Through hollow shafts up to ø20 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 x 10^{-6} kgm²	W01 shaft design
	~58.5 x 10^{-6} kgm²	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.

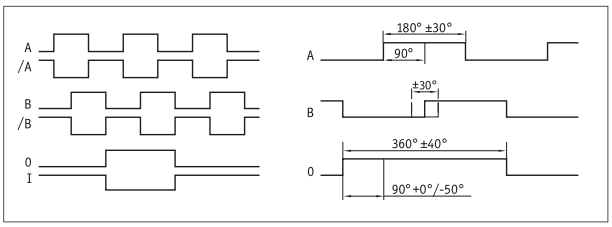
LD output circuit

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/s², 6 ms	EN 60068-2-27
Vibration resistance	100 m/s², 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

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 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

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

Order

Ordering table

Feature	Ordering data		Spezifikation	Additional information
output signal	A	...	AXX, ABX, ABO, ABI, AXO, AXI	
pulses/revolution	B	...	1, 2, 5, 10, 20, 25, 30, 36, 40, 50, 60, 70, 80, 90, 100, 125, 150, 200, 220, 250, 300, 360, 400, 500, 512, 585, 600, 750, 800, 900, 1000, 1024	
			others on request	
Type of connection	C	EX	without cable	
		E1	open cable ends	
		E3	right angle plug	
		E4	connector	

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Feature	Ordering data		Spezifikation	Additional information
Cable length	D	00.5	0.5 m	
		...	02.0 ... 50 m, in intervals of 0.1 m	
		OK	without cable	
Mounting type	E	1	with blind hole	
		2	with flange	
Output circuit	F	PP	push-pull	
		OP	push-pull with inverted signals	
		LD	Line Driver	
		LD24	line driver, 24 V	
shaft design/diameter	G	W01	20 mm	ball bearing and lock screw
		W01/RH12	with reducing bush 12 mm	ball bearing and lock screw
		W01/RH14	with reducing bush 14 mm	ball bearing and lock screw
		W01/RH15	with reducing bush 15 mm	ball bearing and lock screw
		W01/RH16	with reducing bush 16 mm	ball bearing and lock screw
		W02	20 mm	ball bearing and lock ring
		W02N	20 mm, stainless steel	ball bearing and lock ring
bearing	H	MS	IP64, high-precision sealing gap	
		RS	IP65, increased bearing seal	

Order key

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

Scope of delivery:
IG07

Accessories you can find:
Cable extension KV07S0 www.siko-global.com
Cable extension KV08S0 www.siko-global.com