

- Rugged and extremely thin hollow shaft encoder for extension on power motors
- Hollow shaft Ø max. 45 mm
- Easy mounting
- Meets protection class IP 54

Applications:
Power motors and three phase current motors with frequency transformation, system construction, crane systems



Mechanical characteristics:

Speed:	max. 3500 min-1
Starting torque:	1,5 Ncm
Radial load capacity of shaft*:	200 N
Axial load capacity of shaft**:	100 N
Weight:	720 g
Protection acc. to EN 60 529:	IP 54
Working temperature:	-10 °C ... +70 °C
Shaft:	stainless steel
Shock resistance acc. to DIN-IEC 68-2-27:	1000 m/s ² (6 ms)
Vibration resistance acc. to IEC 68-2-6:	50 m/s ² (10 ... 2000 Hz)

Available resolution:

1000, 1024, 2048, 2500, 4096

Electrical characteristics:

Output circuit:	RS 422	Push-pull
Supply voltage:	4,75 ... 5,5 VDC	10 ... 30 VDC
Power consumption (no load) without inverted signal:	-	-
Power consumption (no load) with inverted signals:	max. 70 mA	max. 70 mA
Permissible load:	max. 40 mA	max. 40 mA
Pulse frequency:	max. 200 kHz	max. 200 kHz
Signal level high at 20 mA:	min. 2,5 V	min. U _B -2,5 V
Signal level low at 20 mA:	max. 1,2 V	max. 2,5 V
Short circuit proof outputs:	no	yes

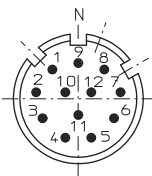
Terminal assignment

Signal:	0V	+U _B	A	\bar{A}	B	\bar{B}	0	$\bar{0}$	Shield
12 pin plug Pin	10	12	5	6	8	1	3	4	PH ¹⁾
Cable colour:	WH	BN	GN	RD	YE	BL	GY	PK	

¹⁾PH = Shield is attached to connector housing

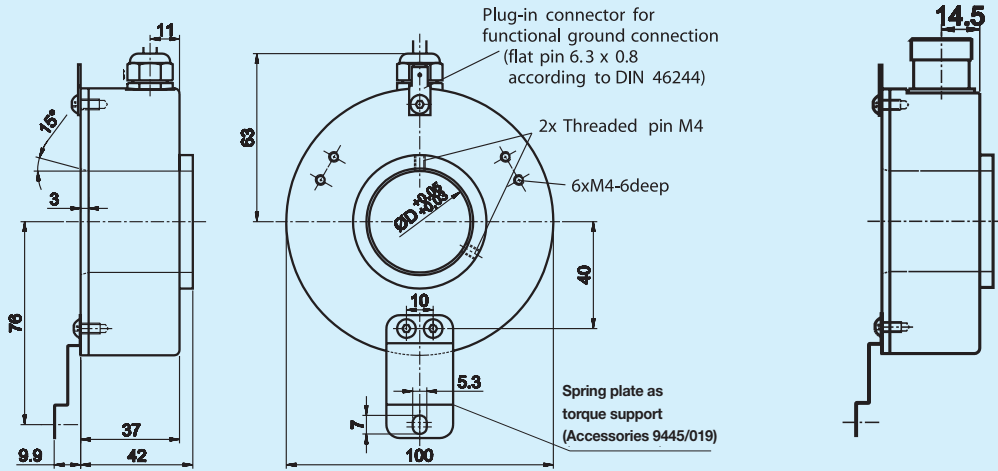
Top view of mating side, male contact base:

12 pin plug



Dimensions

Connector, 12-pin.



ORDERING CODE

DINH100

Shaft Ø

- 25 = 25 mm
- 28 = 28 mm
- 30 = 30 mm
- 32 = 32 mm
- 38 = 38 mm
- 40 = 40 mm
- 42 = 42 mm
- 45 = 45 mm
- Other diameters on request.

Output circuit and supply voltage

- A5 = Push-pull (with inverted signal) 10 ... 30 V supply voltage
- A2 = RS422 (with inverted signal) 5 V supply voltage

Output signals

- 9 = \bar{A} , A, \bar{B} , B, $\bar{0}$, 0
- 7 = \bar{A} , A, \bar{B} , B
- 5 = \bar{A} , A

Connection

- Cable
- 3R = shielded cable radial output
- 8R = 12 pin connector, radial output, ccw

Resolution

- 1000
- 1024
- 2048
- 2500
- 4096
- Other PPRs on request.