

WDH28 series

Hall angle sensor



Feature:

- Non-contact, magnetic induction measurement technology
- Working range up to 360°
- 12-bit resolution, independent linearity $\pm 0.5\%$ • Very small lag Angle
- Compact and robust, long service life
- Protection class IP 65
- Rotating shaft 6mm with shaft punctuation

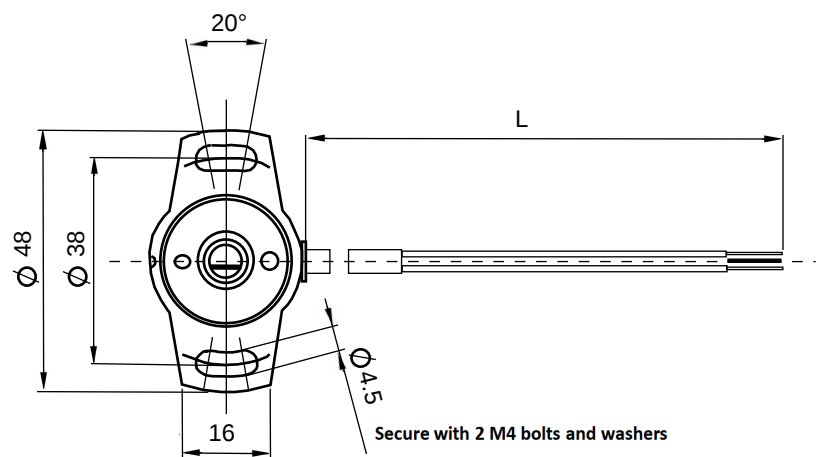
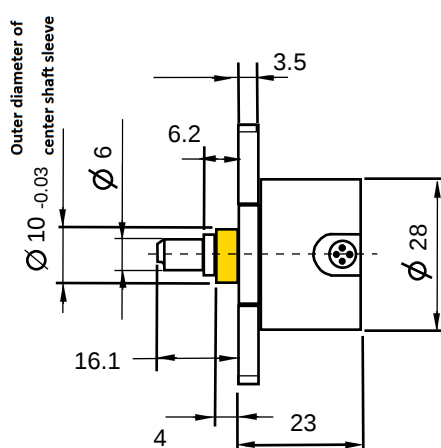
Usage:

- Ships, lifting platforms
- Factory automation,
- Test equipment
- Motor speed control, robot arm joint

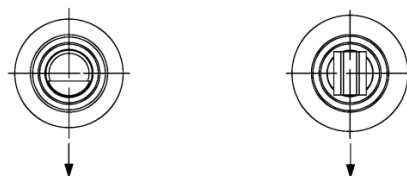
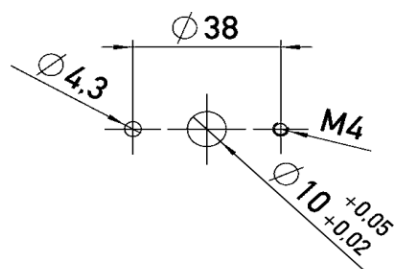
Details:

- High grade high temperature resistant plastic outer shell
- Shaft bearing bronze sleeve bearing
- Induction elements Hall chip and magnetic block, power end reverse protection • Mechanical connection fixing hole, coupling
- Electrical connection straight-out shielded cable, TEP material, 4 x 0.5mm²

Dimensions:

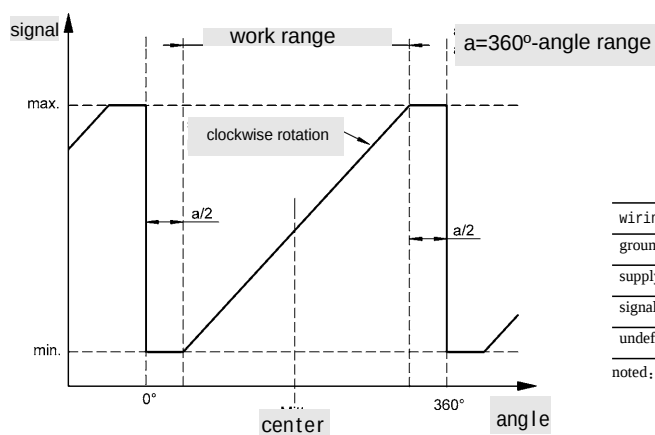


recommended hole diameter: 2xØ4.3 or 2xM4



When the shaft points towards the cable, the sensor is located in the electrical center.

signal feature:



单路信号输出

wiring	define	cable	color
ground	3		brown
supplyvoltage	1		green
signaloutput	2		white
undefine/signal2	4		yellow

noted; cable shielding connected with ground

Parameters:

Parameter	unit	Detail
working supply	V	DC 5V (±10%) 或 9-32 V
max response frequency	HZ	5 K
max rotation speed	rpm	800
Linearity	%	≤0.5 .F.S
Max consumption		15 mA (no load)
Repeatability	°	0.1
angle hysteresis	°	< 0.1
working temperature	°C	-40 - 85
storage temperature	°C	-25 - 85
mechanical angle		360 ° 连续
working range		0 - 30 ° 0...360 ° (30 ° 递增)
output signal		0.25-4.75V/0.5 - 4.5V (load>1KΩ) 、0.1-10V (load>10KΩ) 4 - 20 mA (load≤500 Ω)
starting torque	N.CM	<0.5
working life	time	≥ 50 millions
anti-shock		50g (6ms)
anti-vibration		20g , 5~2000Hz, Amax=0.75mm

instructions:

