

WED Series

Linear Position Sensor



Feature:

- Flexible installation and easy to use
- High resolution accuracy, up to 0.03mm
- Uniform and smooth movement, life of 10 million times
- Protection level: Standard IP54
- Maximum range up to 20M, incremental signal output.

Details:

- Anodized aluminum for the outer shell
- Steel wire imported steel wire coated diameter 0.7mm
- Axle bearing flexible double bearing
- Induction element high precision encoder, import optional
- Mechanical connection elastic ring buckle, M6 screw nut lock
- Electrical connection to 9-core M18 circular aviation plug or test shielded cable

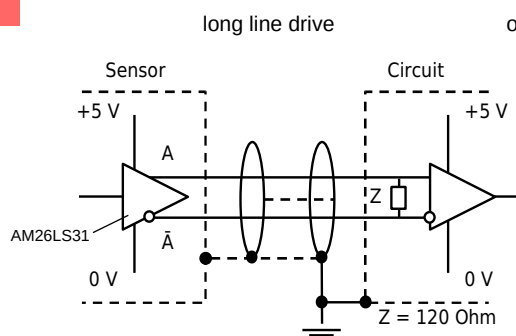
Usage:

- Elevator, elevator, lifting platform
- Factory automation, forklift
- Sluice control,

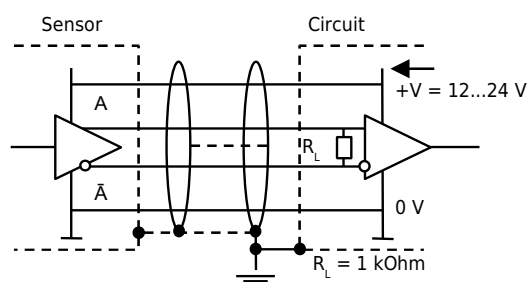
Series type:

Series	optional range mm	optional resolutions mm
WED70	500、750、1000、1250、1500	0.04、0.1、0.2、0.5、1
WED90	2000、2500、3000、4000	0.03、0.05、0.1、0.2、0.5、1
WED130	5000、6000、7000...10000、20000	0.5、1

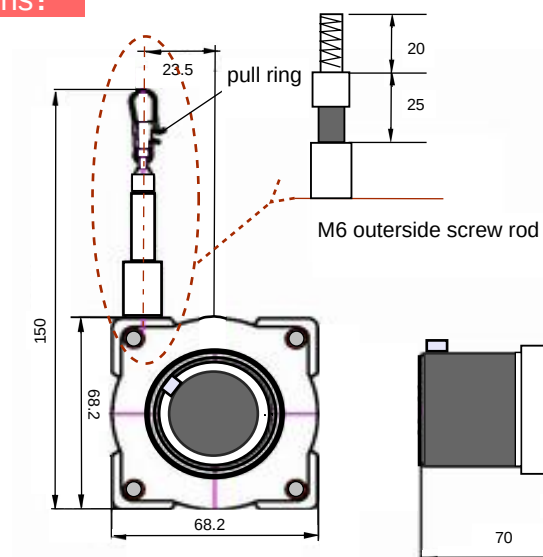
Circuit type:



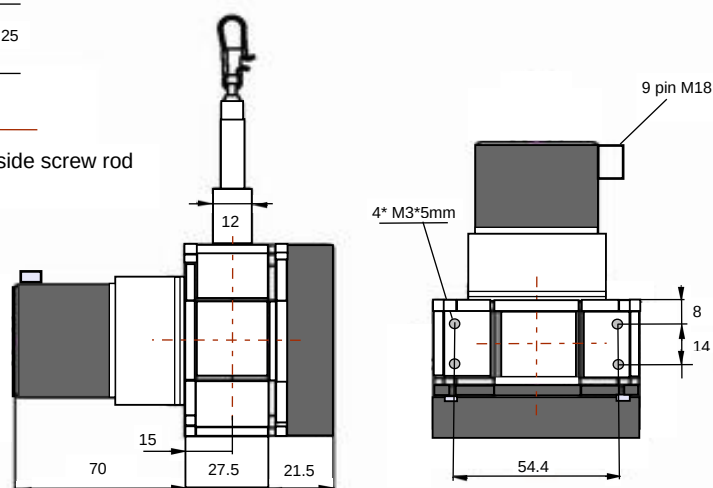
open collector (NPN/PNP, push pull (complementation) type



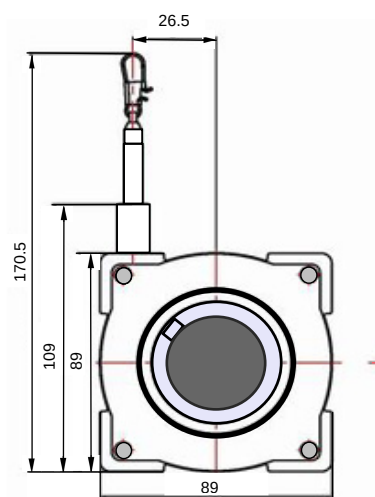
Dimensions:



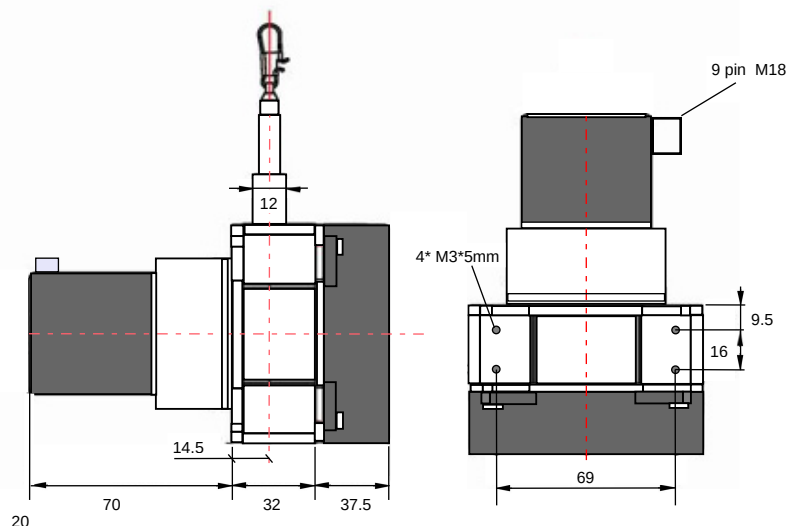
WED70 series radial cable output



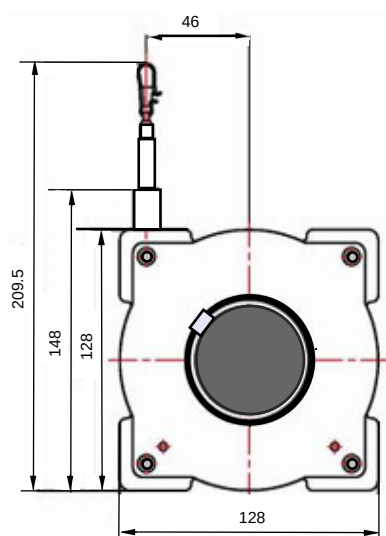
radial aviation plug output



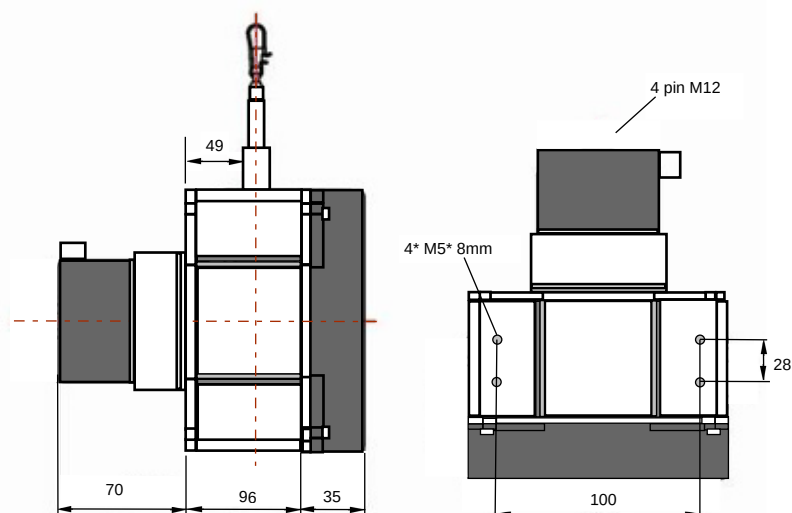
WED90 series radial cable output



radial aviation plug output



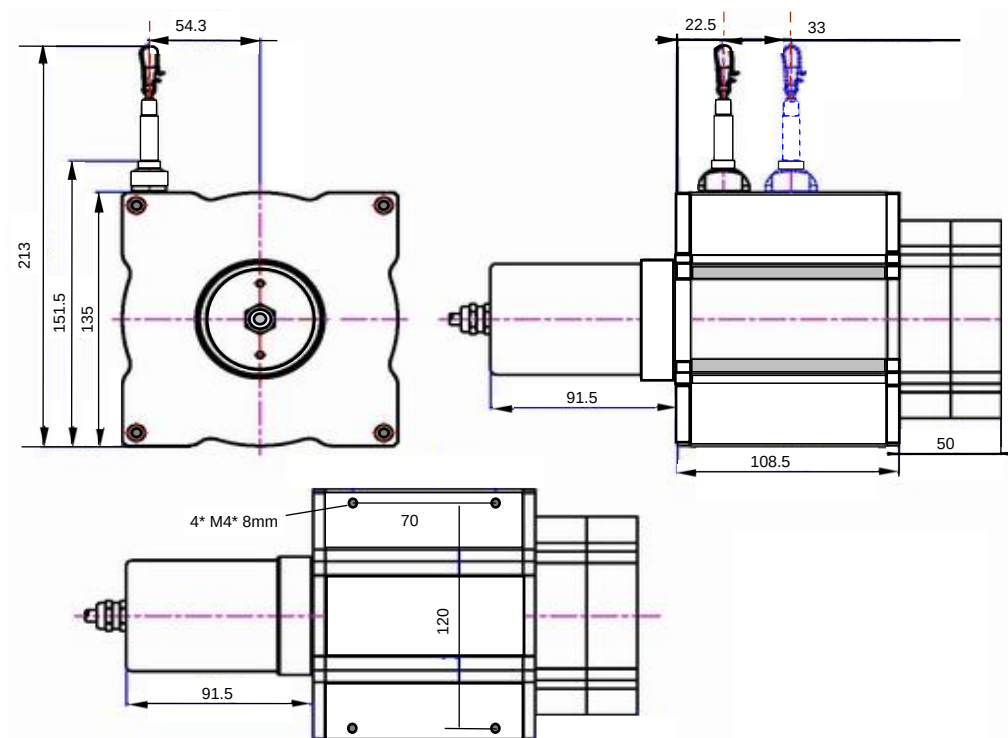
WED130 series cable output



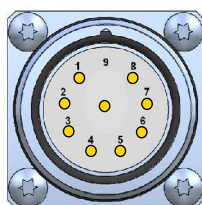
Aviation plug output

Dimensions:

WEP130 long range



Wirings:



signal	+ V	0V	A	A _{Not}	B	B _{Not}	Z	Z _{Not}	shielding
Pin no M18, 9-pole	1	4	5	7	3	6	2	8	9
Cable color	red	black	green	brown	white	grey	yellow	orange	housing

Note: Output circuit characteristic selection

- 24V collector open circuit: (NPN/PNP type according to PLC controller description)
- Long line drive output: suitable for long distance transmission due to high-speed response and good anti-noise performance.
- Push-pull: (also known as complementary output).

Parameters:

Parameter	unit	Details			
Series		WEP70	WEP90	WEP130	WEP130(long range) output signal
A/B/Z incremental pulse,		5V differential pulse A/Ainverting, B/Binverting, Z/Zinverting			
working voltage	V DC	12-24V (MAX.30V)	5V DC		
working temperature	°C	-25 ...+100			
storage temperature	°C	-40...+120			
reciprocation speed (MAX)	M/S	1			
antivibration frequency	Hz	10...1500			
amplitude	mm	Max0.75			
acceleration	g	aMax=10			
anti-shock time	ms	11			
force	g	20			
working life	time	> 50 x 10 ⁶			
protection class		IP 64			
accuracy	±%.F.S	0.05 or ±1 account pulse			
repeatability	mm	±1 account pulse			
response frequency	Hz	80K-100K			
phase difference		90 ° (A&B)			
flutuation transform time	mS	2			
pull force F	N	F<10		15<F<20	

Instructions:

WED XX	- XXXX	- XX	- X	- XX
Series	Range mm	resolutions	work voltage	signal type
70 90 130	500 750、1000、 ... 3000、6000 9000、 20000.	1: 1mm 05: 0.5mm 02: 0.2mm 01: 0.1mm 004:0.04mm	5: 5V DC 24: 12-24 VDC	Blank: voltage C: current (open collector) PP: push and pull L: long line drive