

TEP high accuracy Series

Linear Position Sensor



Feature:

- Non-contact measurement, built-in structure, LED light real-time monitoring.
- Repetition accuracy less than 0.005%F.S, nonlinearity less than 0.05%F.S
- High resolution, up to 0.5um when output SSI signal.
- Linear measurement, absolute analog output (0-10)V/(4-20)mA SSI synchronous serial, replaceable encoder
- Measuring stroke up to 5000 mm

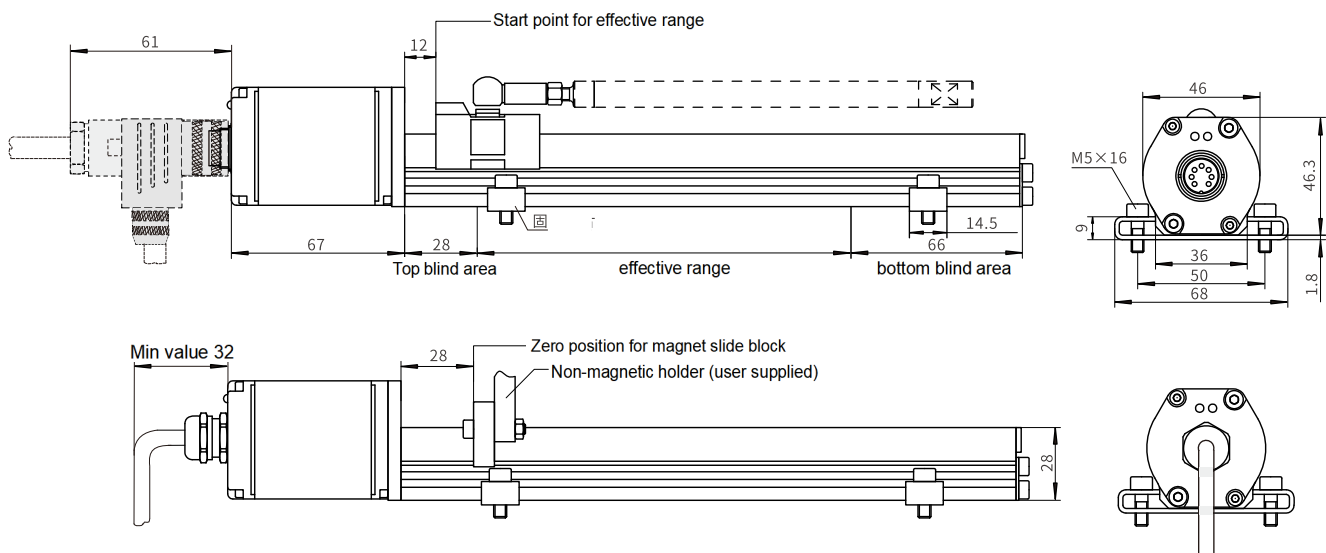
Details:

- Measuring rod steel measuring rod 304L stainless steel
- Threaded interface M18*1.5 (optional)
- Aluminum alloy IP67 304L enclosed stainless steel (optional)
- Outer pipe pressure 35M Pa(continuous), 70MPa(peak)
- Outlet mode Straight out of the cable or aviation plug
- Position magnet Standard magnetic ring and various ring magnets

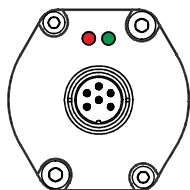
Usages:

- Hydraulic press, pile driver
- Built-in cylinder matching
- Liquid level measurement

Dimensions:



The red and green LED indicator on the sensor end cover provides real-time monitoring and fault diagnosis of the sensor.



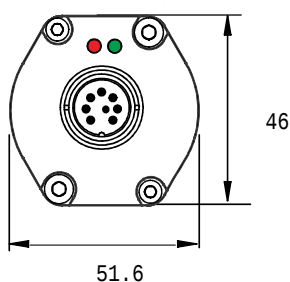
green	red	function
shine	none	works
shine	flash	magnet off range
shine	shine	no magnet detected
flash	shine	programming

analog	pin	wire color	function definition
	1	white	signal+
	2	brown	signal-
	3		programming
	4		programming
	5	blue	+24VDC ±20% supply
	6	pink	0VDC supply cycle

Note:
1, with standard magnetic ring, with magnetic spacer and fixing screw;
2. When the cable plug is equipped in the form of aviation socket, the six-core air socket female head is equipped by default;
EEM33-82-N (6-hole M16 straight head)
EEM33-94-N (6-hole M16 bend 90°)

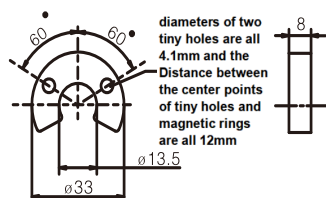
Dimensions compatible with 7 pins / 7 holes See the attachment below

SSI output: Aviation socket

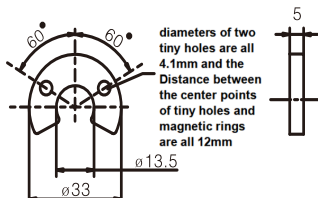


SSI	pin	color	function definition
	1	white	clock+
	2	brown	data+
	3	green	clock-
	4		
	5	grey	data-
	6	pink	0VDC supply cycle
	7	blue	+24VDC ±20% supply

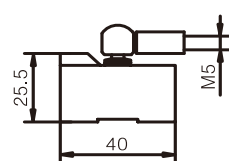
accessory size:



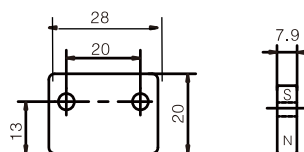
gapped ring: TEP-AC-03



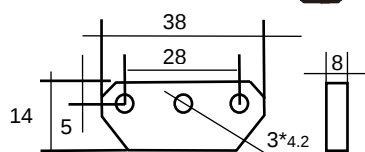
gapped spacer



Slider magnet: TEP-AC-04

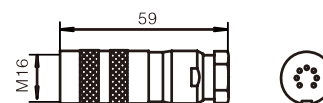


Suspension magnet: TEP-AC-05

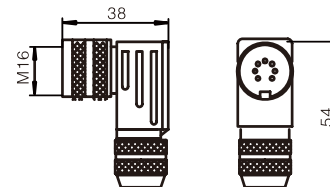


Suspension strong magnet: TEP-AC-06

EEM33-84-N 8 pin straight female head



EEM33-85-N 8 bent female head



Parameters:

Parameters	unit	Details
range	mm	50 - 5000 (25mm per level、customized range) ,
output signal		0 - 10 VDC (min load>5K Ohm)、4 - 20 mA(max load 500 Ohm), SSI
resolution		analog: 16 bites D/A , SSI: 0.5um、1um、5um、10um
linearity	± %	analog: range>300mm(< 0.05% F.S.), range≤300mm max ±150um SSI: range>300mm(< 0.01% F.S.), range≤300mm max ±50um
repeatability	± %	0.0015.F.S (< 0.0015% F.S.) SSI ±1 resolution unit, min S is 1um
hysteresis		<10 um
refresh frequency	HZ	range≤1m:2000, 1m<range≤2m:1000, 2m<range≤5m: 500.
Transmission rate		50KBD-1MBD Output cable length: <3 <50 <100 <200 <400 m SSI speed: 1000 400 300 200 100 KBD
working temperature	℃	-40 - +85
Output voltage fluctuation	%	< 0.02 % F.S. (min 5mVpp)
working voltage	V	24 VDC(±10%) MAX=36 VDC(overload protect)
power consumption	mA	80
Electrical impact	V	500 (Between electrical ground and machine ground)
Inverting voltage protection	V	max - 30 VDC
shock index	g	100(single shock) /IEC standard 68-2-27
vibration	g	10/10-2000HZ/IEC standard 68-2-26
protection level		IP 67 / 68
certificate level		accord with CE-standard (pass EMC approval)
working humidness		90% (relative humidity) no condensation
Temperature coefficient		for analog: <30ppm/℃ 、 for SSI: <15 ppm/℃

instructions:

