

TCP Series

Linear Position Sensor



Feature:

- Non-contact measurement, economical, durable and wear free.
- Repeatability reaches 0.01%, nonlinearity reaches 0.05%
- Linear measurement, absolute analog output (0-10)V/(4-20)mA
- Alternative upgrade products for electronic ruler
- Maximum measuring stroke 2000mm

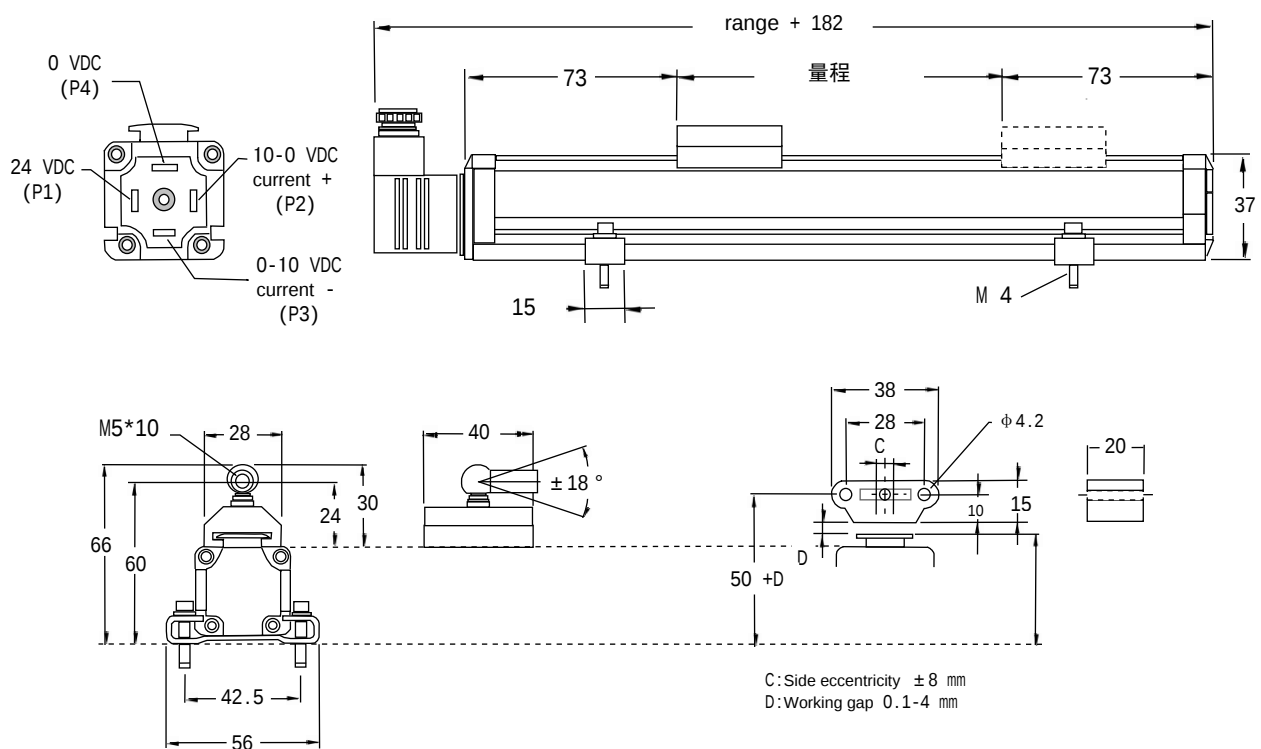
Usages:

- Rubber and plastic machinery, die casting machine
- Brick press, plastic machinery
- Woodworking machinery, hydraulic machinery, etc

Details:

- Anodized aluminum for the outer shell
- Overall dimensions 37*37
- The magnet material housing is polycarbonate magnet is ferrite
- do not repair the steel fixing clip
- Position signal analog voltage/current 1 group

Dimensions:



Rail magnetic block: TCP-AC-01

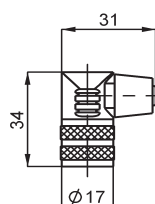
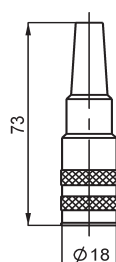
Suspended magnetic block: TCP-AC-02

Technical drawing of a mechanical part, showing a side view and a cross-section view. The side view includes dimensions: 55 (total width), 45 (inner width), 28 (distance between holes), 15 (height of the base), 20 (height of the main body), and 40 (height of the mounting bracket). The cross-section view shows a diameter of $\phi 4$ and a width of 21. The drawing also indicates a distance of 55+D from the left edge to the center of the mounting bracket, and a distance of C between the mounting holes.

D: working gap 0.1-10 mm

Technical drawing of the Range+156 assembly. The drawing shows a side view of the assembly with the following dimensions and components:

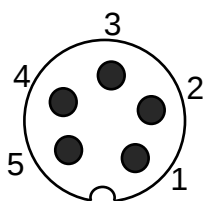
- Overall length: 156
- Distance from left end to first component: 9.5
- Distance between first and second components: 73
- Distance between second and third components: 73
- Distance from right end to third component: 73
- Left end component: M16*0.75
- Right end component: M 4
- Bottom component: 15
- Height of the assembly: 37

[illegible]

Parameters:

Parameter	Unit	Details
range	mm	50 - 4000 (25mm per level、customized range) ,
output signal		0 - 10 VDC 、 4 - 20 mA
resolution		16 bites D/A
linearity	± %	0.05.F.S (< 0.05%F.S.) or min ± 90um
repeatability	± %	0.01.F.S (< 0.01% F.S.)
frequency	HZ	500 - 1000
working temperature	℃	-40 - 80
Output voltage fluctuation	%	< 0.02 % F.S. (min 5mVpp)
working voltage	V	24 VDC (±10%)
Power consumption	mA	40 (depend on range)
Electrical impact	V	500 (Between electrical ground and machine ground)
Inverting voltage protection	V	max - 30 VDC
shock index	g	50 (single shock) / IEC standard 68-2-27
vibration	g	5g / 10-2000HZ / IEC standard 68-2-26
protection level		IP 65
certificate level		accord with CE-standard (EMC approval)
working humidity		90% (relative humidity) dewlessness
Temperature effect		≤ 0.007%.F.S/ °C

wirings:



Pin	direct cable	
1	brown wire	+24 V
2	yellow wire	I+ / 10-0 V
3	grey wire	I- / 0-10 V
4	blue wire	0 V & GND
5		shielding

instructions:

