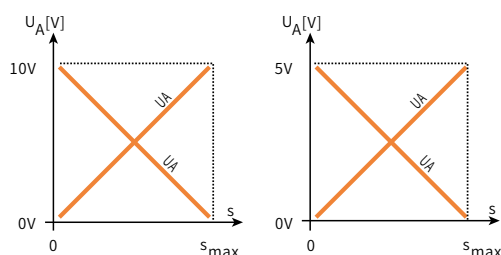




ZT-Analog

Data Sheet



- + Measuring Principle: Magnetostrictive principle. Non-contact measurement with no wear and long service life
- + Easy Installation: Push-pull rod type for quick installation. Supports two fixing methods: mounting clip and M5 screw
- + Linear measurement, absolute value output without zeroing
- + Easy integration: standard signal output, maintenance-free
- + High Precision: 12-bit D/A output, excellent linearity, outstanding repeatability and low temperature drift
- + Widely used: printing, papermaking, rubber and plastic machinery and other fields



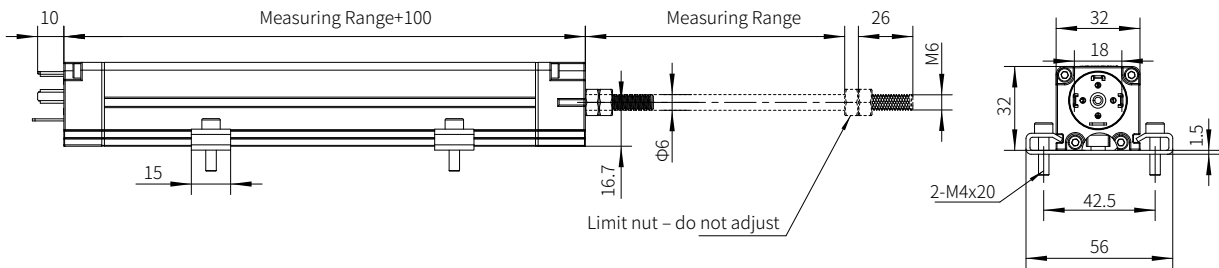
Document Number:
ZT-A (V1.0)-EN

TECHNICAL PARAMETER

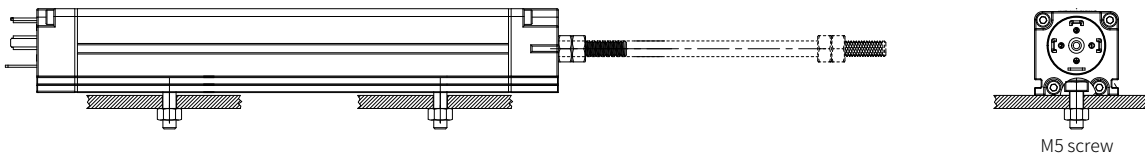
Input							
Measured data	Position						
Measurement range	50mm...2000mm						
Output							
Voltage	0...10VDC, 10...0VDC, 0...5VDC, 5...0VDC (Controller min. load impedance >5KΩ)						
Resolution							
Position resolution	12 bit D/A						
None-Linearity	≤ ±0.05%F.S.						
Repeatability	≤ 0.01mm						
Update time	<table border="1"> <thead> <tr> <th>Stroke length</th> <th>≤ 1200mm</th> <th>≤ 2000mm</th> </tr> </thead> <tbody> <tr> <td>Update time</td> <td>0.5ms</td> <td>1.5ms</td> </tr> </tbody> </table>	Stroke length	≤ 1200mm	≤ 2000mm	Update time	0.5ms	1.5ms
Stroke length	≤ 1200mm	≤ 2000mm					
Update time	0.5ms	1.5ms					
Temperature coefficient	< 30ppm/°C						
Mounting							
Mounting position	Any						
Installation type	Removable fixing card and M5 screw						
Design/Material							
Sensor shell	Aluminum alloy						
Push-pull rods	SUS304 / Chrome Carbon Steel						
Electrical Connection							
Wiring connection	Rectangular connector						
Operating voltage	12VDC (-15/+20%)						
Polarity protection	Max.-36VDC						
Power consumption	< 50mA (varies with range size)						
Insulation strength	500 VDC (DC ground to machine ground)						
Operating Conditions							
Magnet movement speed	≤ 10m/s						
Service Life	> 100×10 ⁶						
Operating temperature	-40...85°C						
Humidity	90 % relative humidity, no condensation						
Ingress protection	IP67						
Shock	50 g (single shock) IEC standard 60068-2-27						
Vibration	5g/10...2000 Hz, IEC standard 60068-2-6 (resonant frequencies excluded)						
EMC	Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2						

TECHNICAL DRAWING

Adjustable mounting clip

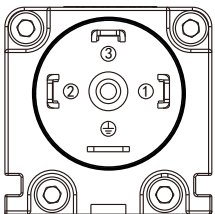


M5 screw mounting



FUNCTION

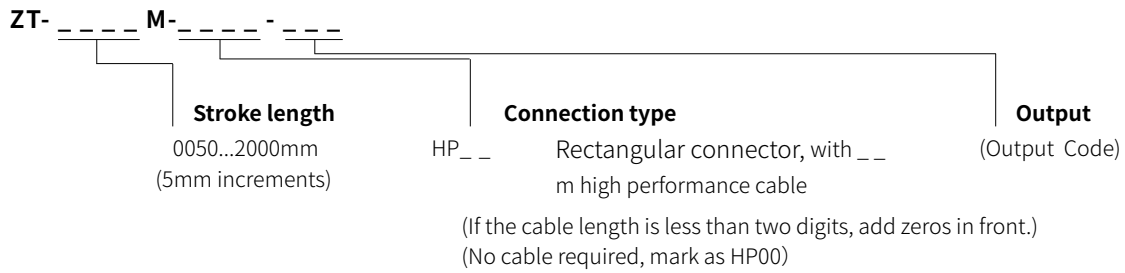
Rectangular connector	PIN	Color	Function
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View on sensor

1	White	GND
2	Green	Signal output
3	Brown	+12VDC (-15/+20%)
GND	Yellow	Housing GND

ORDER CODE



Analog Output Code [1][2][3]

[1][2] Output

- V01 0~10V(forward)
- V11 10~0V(reverse)
- V21 0~5V(forward)
- V31 5~0V(reverse)

Note: forward, data grows larger when the magnet is distant from the electronics housing;
reverse, data grows larger when the magnet approaches the electronics housing.

Model selection

Model: TL-0600M-HP00-V01

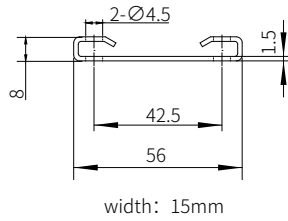
Explanation: TL type displacement sensor, measuring range 600 mm, rectangular connector, 0~10V output (forward).

■ Please contact us
for more customized
products.



PARTS SELECTION

Analog



width: 15mm

Name	Removable fixing card
Order code	11-1068

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