



Technology for  
intelligent  
measurement.

## E serial EL, EF position sensor analog,SSI output



### Features

- External installation, easy to use
- Non-contact measurement, never wear
- Absolute output, no need to return to zero
- Low-power design, effectively reducing system temperature drift
- Slider magnet with spherical plain bearing for high lateral stress

### Structure and Materials

sensor head	:	Built-in
Sensor body	:	Aluminum molded housing of full scale
Position Magnet	:	Slider Magnet, Suspension Magnet

### Installation

Installation direction	:	Any
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## Technical parameter

### Measurement parameters

Range	:	50~4000mm
Output signal	:	Analog,SSI analog16 bit D/A or 0.0015% of full scale
Resolution	:	SSI 1/2/5/10/20/50/100 $\mu$ m
Nonlinearity	:	< $\pm$ 0.02%F.S $\pm$ 50 $\mu$ m)
Repeatability	:	< $\pm$ 0.002%F.S (Min $\pm$ 1 $\mu$ m)
Update time	:	0.5ms(min< 1m) 1.0ms(1m<range<2m) 2.0m(2m<range<4m) 4.0ms(4m<range<7m)

### Electrical characteristics

Way out	:	Direct outlet or aviation plug
input power	:	24VDC (-15/+20% Slider magnet with spherical plain bearing for high lateral stress)
Working current	:	<60mA (Varies with range)
Polarity protection	:	Max-30VDC
Overpressure protection	:	Max36VDC
Insulation capacity	:	500V (Between signal ground and shell)

### working conditions

magnet speed	:	Any
ambient temperature	:	-40 °C ~+ 85°C
Humidity/Dew Point	:	Humidity 90%, no condensation
Nonlinearity	:	< $\pm$ 0.02%F.S $\pm$ 50 $\mu$ m)
Temperature Coefficient	:	< $\pm$ 0.007%F.S/°C
Electrical protection	:	IP65

**Electrical connections**

**SSI output pin definition**



Pin No. Arrangement of Male Connector (Facing the sensor head direction)

No	Wire color	Defination
1	Gray	(-) data
2	Pink	(+) data
3	Yellow	(-) clcok
4	Green	(+) clcok
5	Brown	No + 24V power (-15/%)
6	White	DC power ground (0Vdc)

**Analog output pin definition**

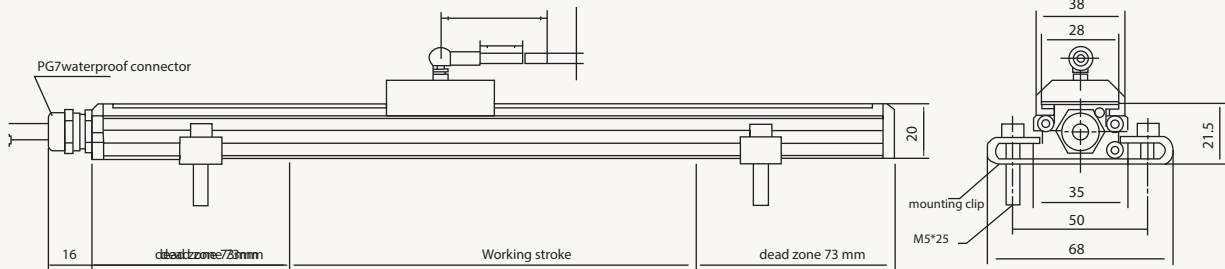


Pin No. Arrangement of Male Connector (Facing the sensor head direction)

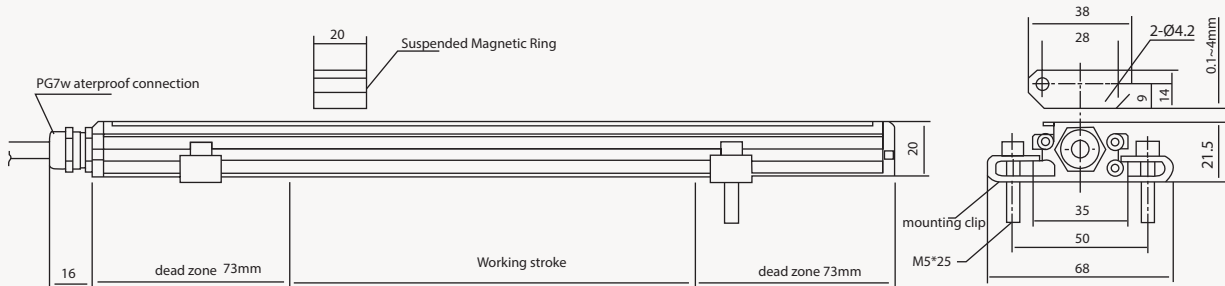
No	Wire color	Defination
1	Gray	Analog signal output
2	Pink	signal grand
3	Yellow	No connect
4	Green	No connect
5	Brown	No + 24V power (-15/+20%)
6	White	DC power ground (0Vdc)

**Dimensions**

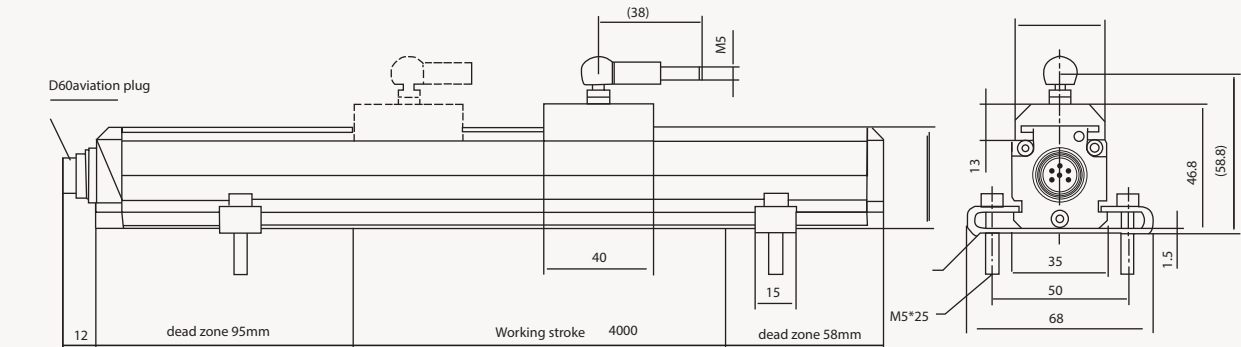
**EL**



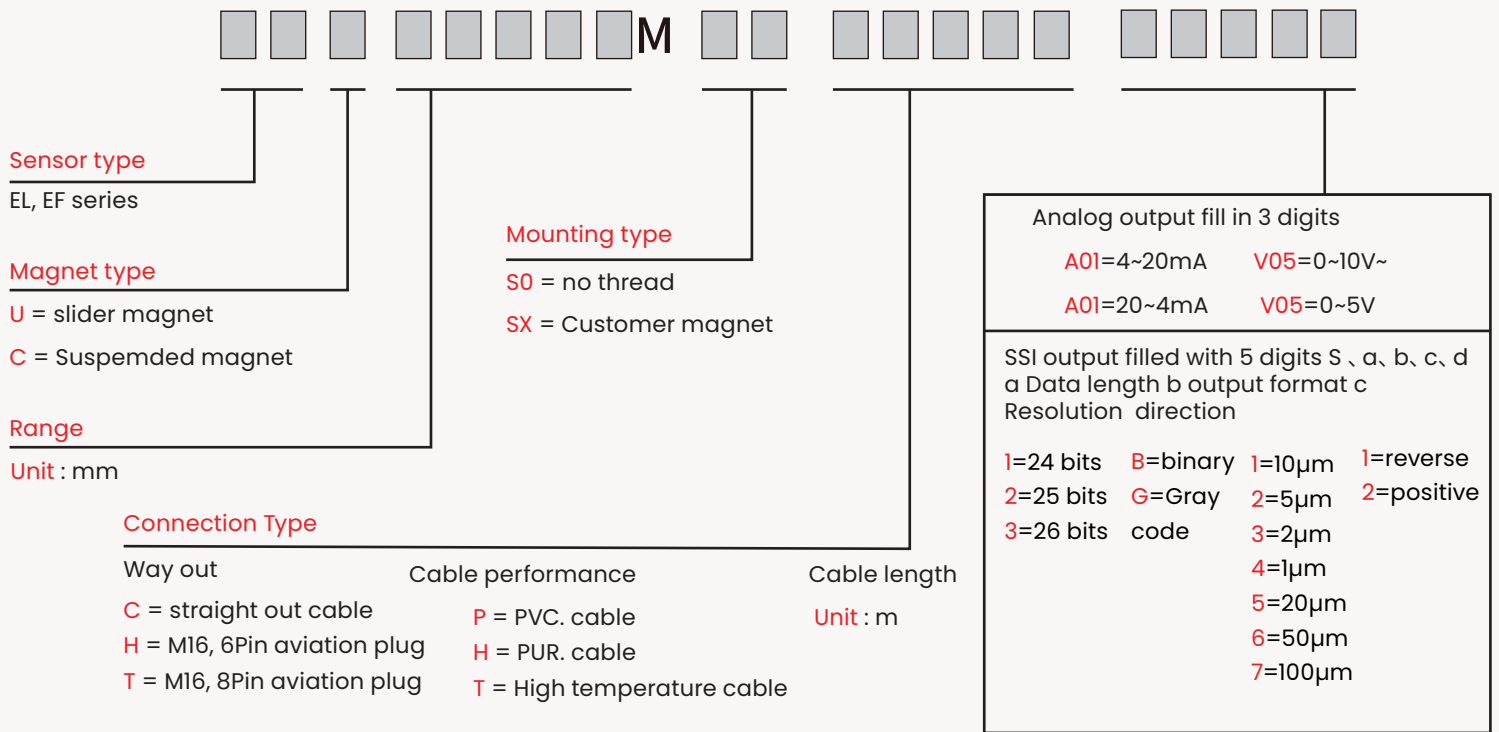
**EL**



**EF**



**Selection guide refer to the following figure**



## GB Serie- position sensor analog, SSI output



### Features

- Flanged electronic compartment, the installation height is only 34mm
- All stainless steel shell, solid and reliable
- Fully enclosed electronic warehouse, strong anti-interference ability
- Non-contact measurement, never wear
- Absolute output, no need to return to zero

### Structure and Materials

Electronic warehouse	: 304 stainless steel
Rod	: 304 stainless steel
Mounting flange	: 304 stainless steel
Outer pipe pressure	: 35MPa(continuous)/70MPa(peak)

### Installation

Installation direction	: Any
Installation method	: 6 M6X16 end flange
Squeeze the seal position magnet	: Standard magnet

## Technical parameter

### Measurement parameters

Range	: 50~5000mm
Output signal	: analog, SSI analog 16bit D/A or full range 0.0015%
Resolution	: SSI 1/2/5/10/20/50/100im
Nonlinearity	: <math>\pm 0.01\%F.S \pm 50im</math>
Repeatability	: <math>\pm 0.001\%F.S (Min \pm 1im)</math>
Update time	: 0.5ms(Min < 1m) 1.0ms(1m < range < 2m) 2.0ms(2m < range < 4m) 4.0m(4m < range < 7)

### Electrical characteristics

Way out	: Direct outlet or aviation plug
Input voltage	: 24VDC (-15/+20%)
Working current	: <math>< 60mA</math> (Varies with range)
Polarity protection	: Max-30VDC
Overpressure protection	: Max36VDC
Insulation capacity	: 500V (Between signal ground and shell)

**working conditions**

Magnet speed	:	Any
Ambient temperature	:	-40 °C ~+ 85°C
Humidity/Dew Point	:	Humidity 90%, no condensation
Temperature Coefficient	:	< ±0.007%F.S/°C
Electrical protection	:	IP67 IP68-special customization

**Electrical connections**

**SSI Quantity output pin definition**



Pin No. Arrangement of Male Connector (Facing the sensor head direction)

No	Wire color	Defination
1	Gray	(-) data
2	Pink	(+) data
3	Yellow	(-) clcok
4	Green	(+) clcok
5	Brown	No + 24V power (-15/+20%)
6	White	DC power ground (0Vdc)

**Electrical connections**

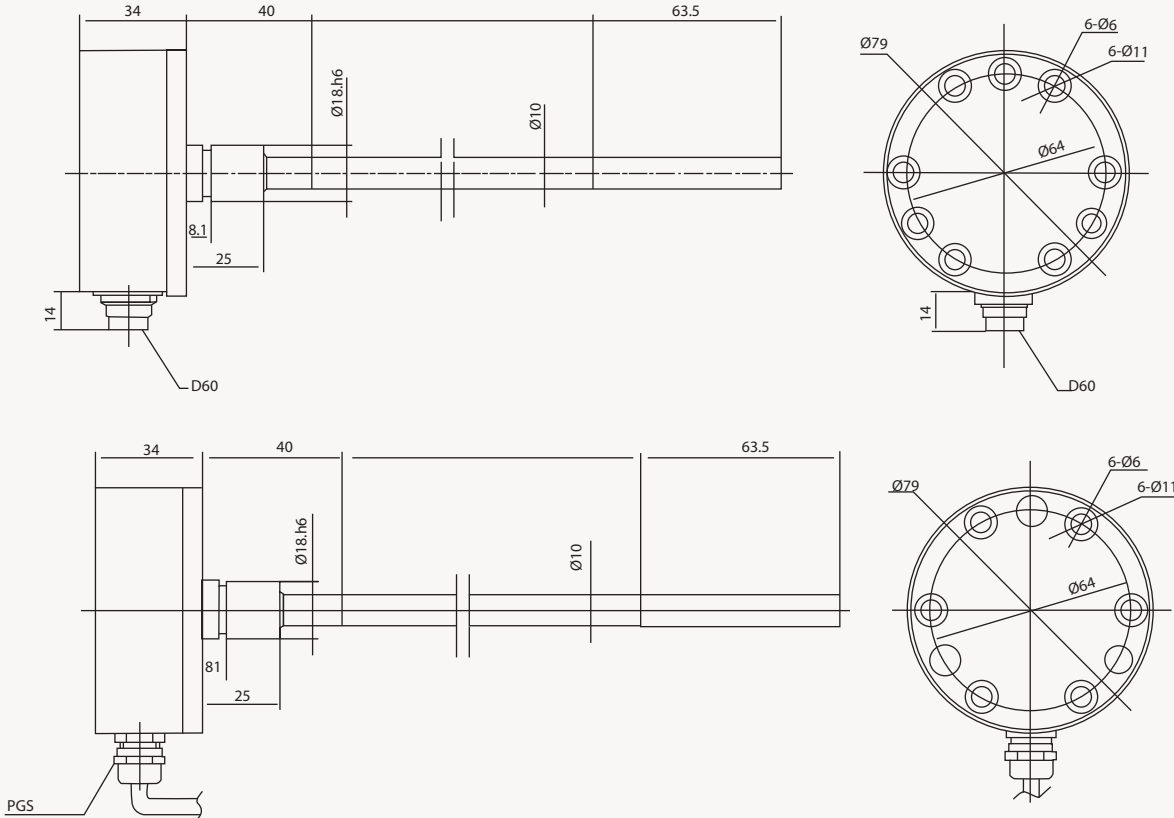
**Analog output pin definition**



Pin No. Arrangement of Male Connector (Facing the sensor head direction)

No	Wire color	Defination
1	Gray	Analog signal output
2	Pink	signal grand
3	Yellow	No connect
4	Green	No connect
5	Brown	No + 24V power (-15/+20%)
6	White	DC power ground (0Vdc)

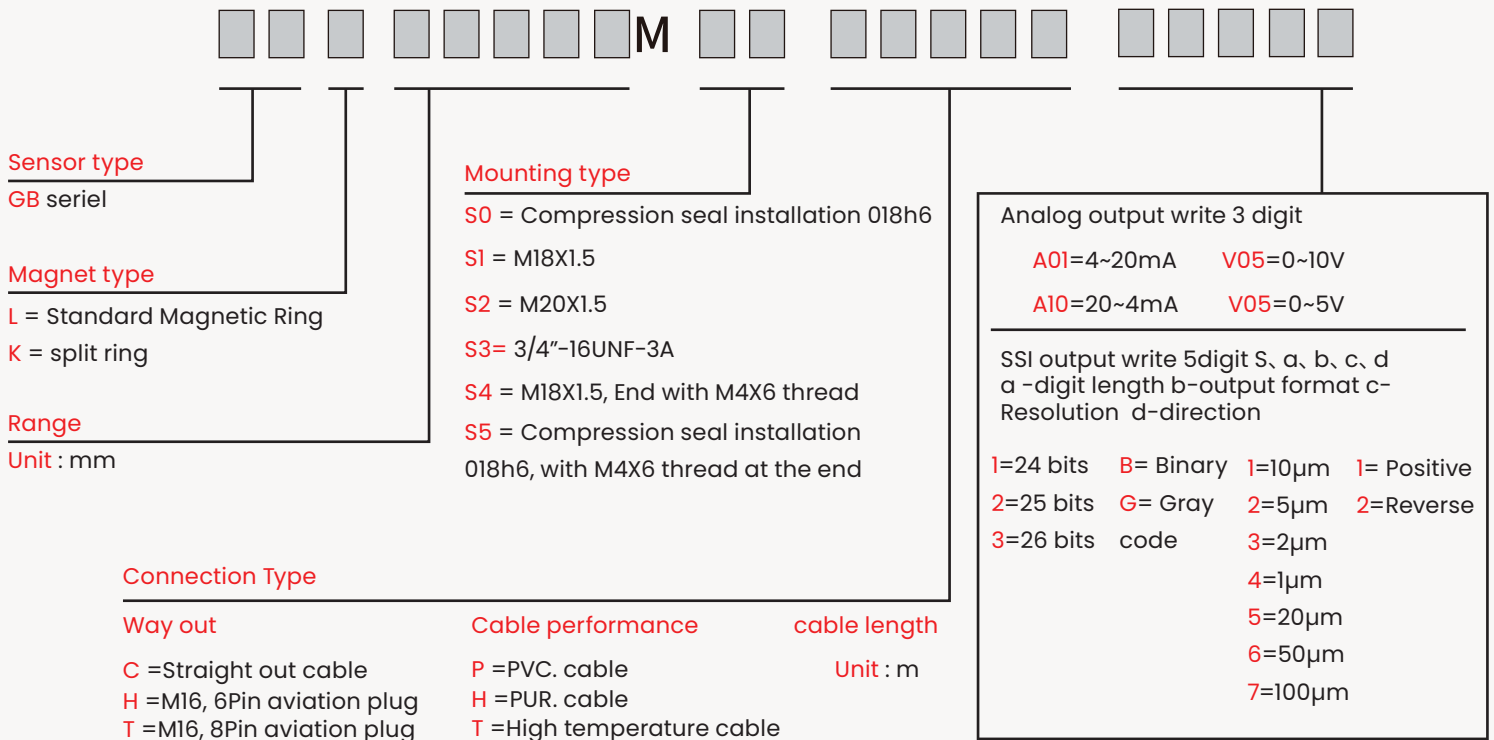
**Dimensions**



Note: The electronic head has its own mounting flange, and 6 M6X16 screw lamps are directly fixed to the installation end surface through the screw holes of the electronic head.



**Selection guide refer to the following figure**



## M Series position sensors

Analog output 4~20mA, 0~20mA, 0~10V, 0~5V



### Features

- Robust and reliable, oil and dirt resistant
- Compact structure, extremely small installation size
- Non-contact measurement, never wear
- Absolute output, no need to zero
- Low power consumption design, effectively reducing system temperature drift
- Suitable for all kinds of construction machinery hydraulic cylinder built-in installation

### Structure and Materials

Electronic warehouse	:	304 stainless steel
Rod	:	304/316 stainless steel
Position magnet ring	:	Various ring magnets
Outer pipe pressure	:	35MPa(continuous)/70MPa (peak value)

### Installation

Installation	:	Direction any
Installation form	:	Squeeze installation

## Technical parameter

### Measurement parameters

Range	:	50~3000mm
Signal output	:	4~20mA (Min / Max load : 0/500 Ω) 2.0~4mA (min / Max load : 0/500 Ω) 0~5VDC (Min load >5K Ω) 0~10VDC (Min load >5K Ω)
Resolution	:	16 bits D/A
Nonlinearity	:	<±0.04%FS (min ±100μm)
Repeatability	:	<±0.005%FS
update time	:	2.0ms



## Electrical characteristics

way out	: Direct outlet, scattered wire or aviation plugInput
Volatge	: 24VDC (-15/+20%)
Working current	: <60mA (Varies with range)
Polarity protection	: Max -30VDC
Overpressure protection	: Max 36VDC
Insulation capacity	: 500V (Between signal ground and shell)

## working conditions

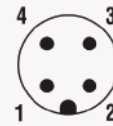
Magnet speed	: Any
Ambient temperature	: -40 °C ~+ 85°C
Humidity/Dew Point	: Humidity 90%, no condensation
Working current	: <60mA (Varies with range)
Temperature Coefficient	: < ±0.007%F.S/°C
Electrical protection	: IP67 IP68-special customization

## Electrical connections

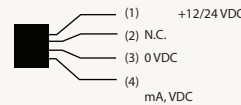
### Straight out cable + loose wire definition

Pin	Color	Function definition
1	Brown	Power supply 12~24VDC
2	White	0Vdc
3	Green	Output : mA,Vdc

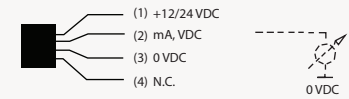
M12 plug pin definition :



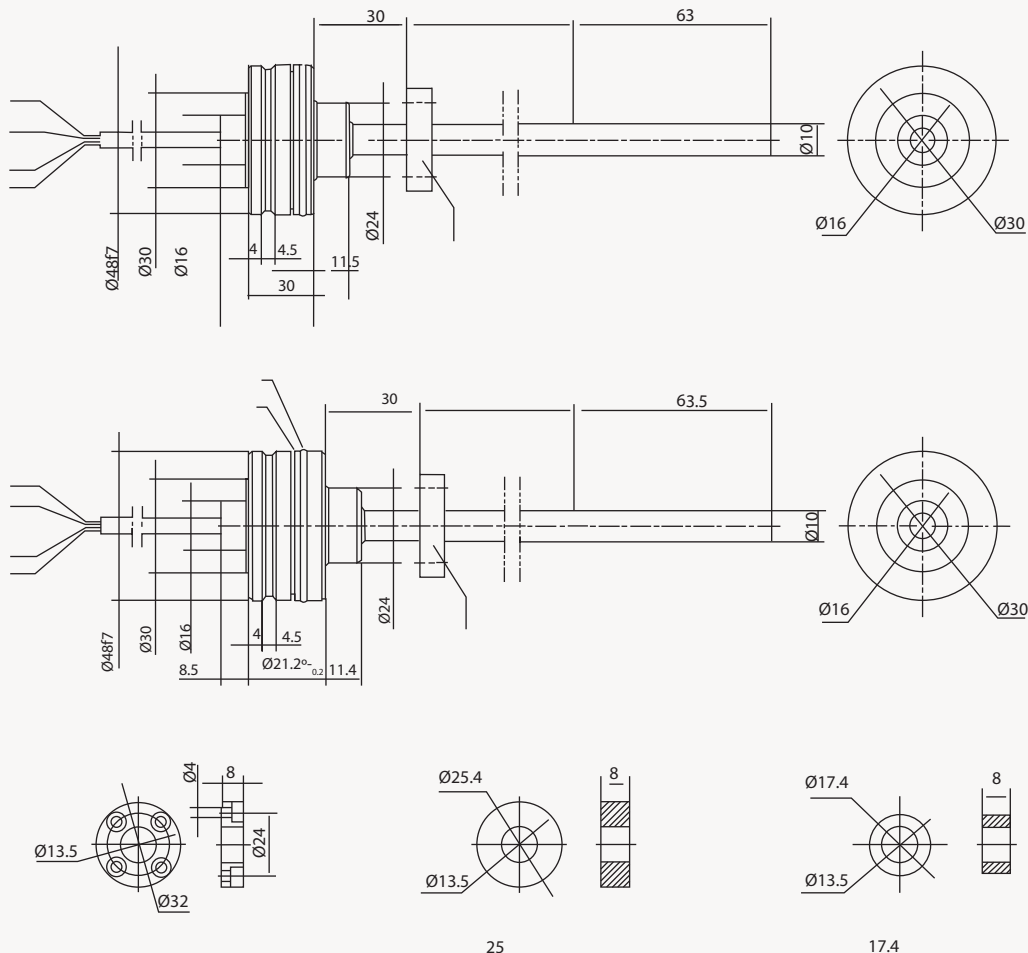
Pin definition : M121



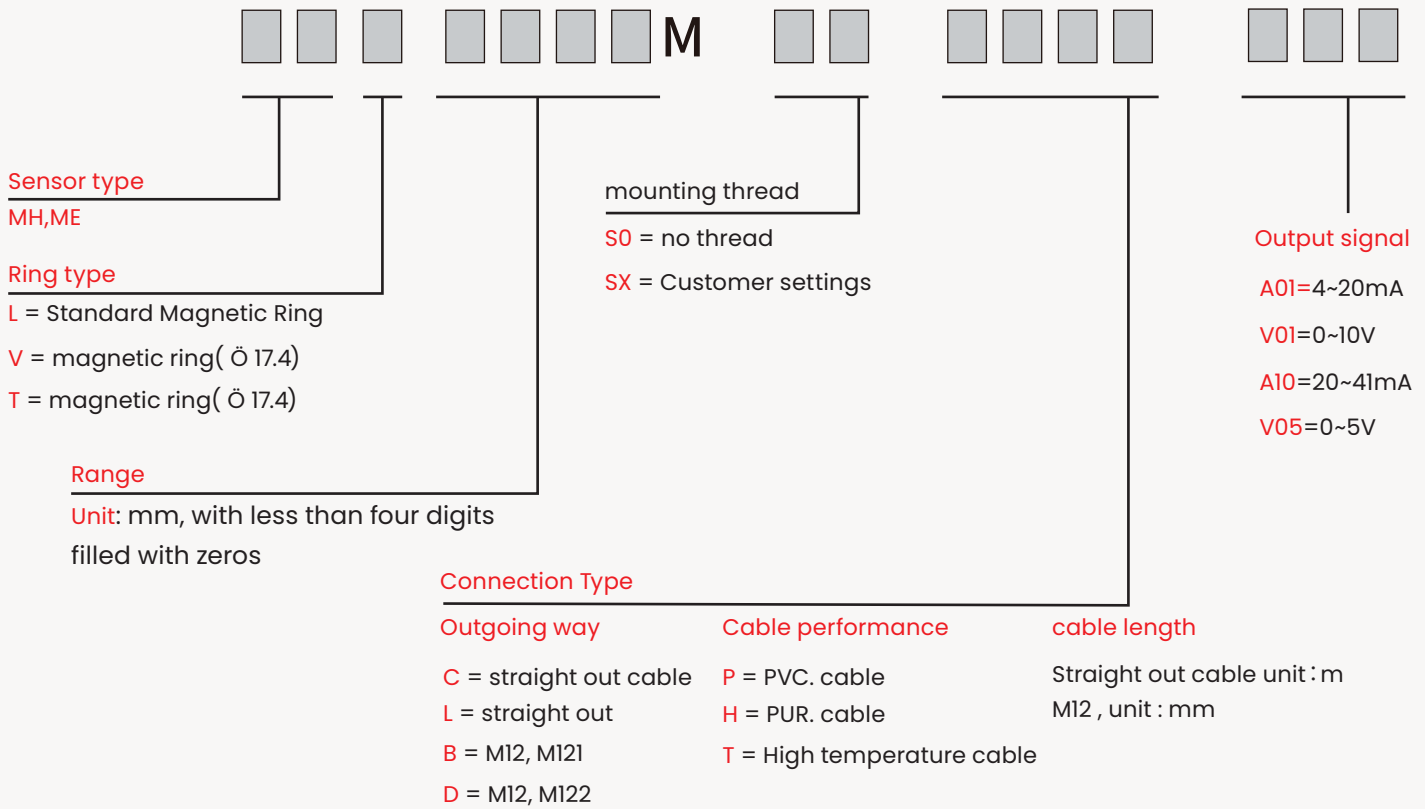
Pin definition : M122



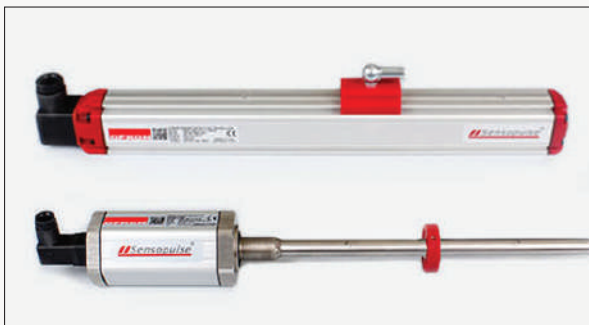
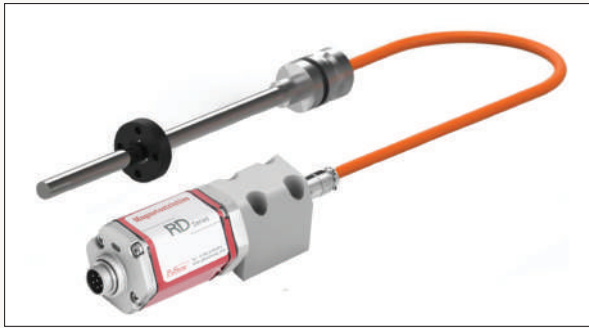
## Dimension



**Selection guide refer to the following figure**



## RD serial – Position sensor analog, SSI output



### Features

- Robust and reliable, oil and dirt resistant
- Non-contact measurement, never wear
- Absolute output, no need to return to zero
- Easy to diagnose, LED lights show real-time status
- Modular design, easy to replace
- Power consumption design, effectively reduce system temperature drift

### Structure and Materials

Electronic warehouse	:	Aluminum alloy
Rod	:	304 stainless steel
Position Magnet	:	Standard magnet, open magnet
Outer pipe pressure	:	35MPa(continuous)/70MPa(peak)

### Installation

Installation direction	:	Any
Installation method	:	6 M6X16 end flange
Position magnet	:	Standard magnet

## Technical parameter

### Measurement parameters

Range	:	50~5000mm
Output signal	:	Aanalog, SSI analog 16bit D/Aor 0.0015% full range SSI 1/2/5/10/20/50/100µm
Resolution	:	SSI 1/2/5/10/20/50/100im
Nonlinearity	:	<±0.01%F.S ±50µm)
Repeatability	:	<±0.001%F.S (Min±1µm)
Update time	:	0.5ms(Min< 1m) 1.0ms(1m<range<2m) 2.0ms(2m<range<4m) 4.0ms(4m<range<7m)

### Electrical characteristics

Way out	:	Direct outlet or aviation plug
Input power	:	24VDC (-15/+20%) plain bearing for high lateral stress)
Working current	:	<60mA (Varies with range)
Polarity protection	:	Max-30VDC
Overpressure protection	:	Max 36VDC
Insulation capacity	:	500V (Between signal ground and shell)

## Working conditions

Magnet speed	:	Any
Ambient temperature	:	-40 °C ~+ 85°C
Humidity/Dew Point	:	Humidity 90%, no condensation
Temperature Coefficient	:	< ±0.007%F.S/°C
Electrical protection	:	IP67 IP68-special customization

## Electrical connections

### SSI output pin definition



Pin No.  
Arrangement  
of Male Connector  
(Facing the sensor  
head direction)

No	Wire color	Defination
1	Gray	(-) data
2	Pink	(+) data
3	Yellow	(-) clcok
4	Green	(+) clcok
5	Brown	No + 24V power (-15/+20%)
6	White	DC power ground (0Vdc)

## Electrical connections

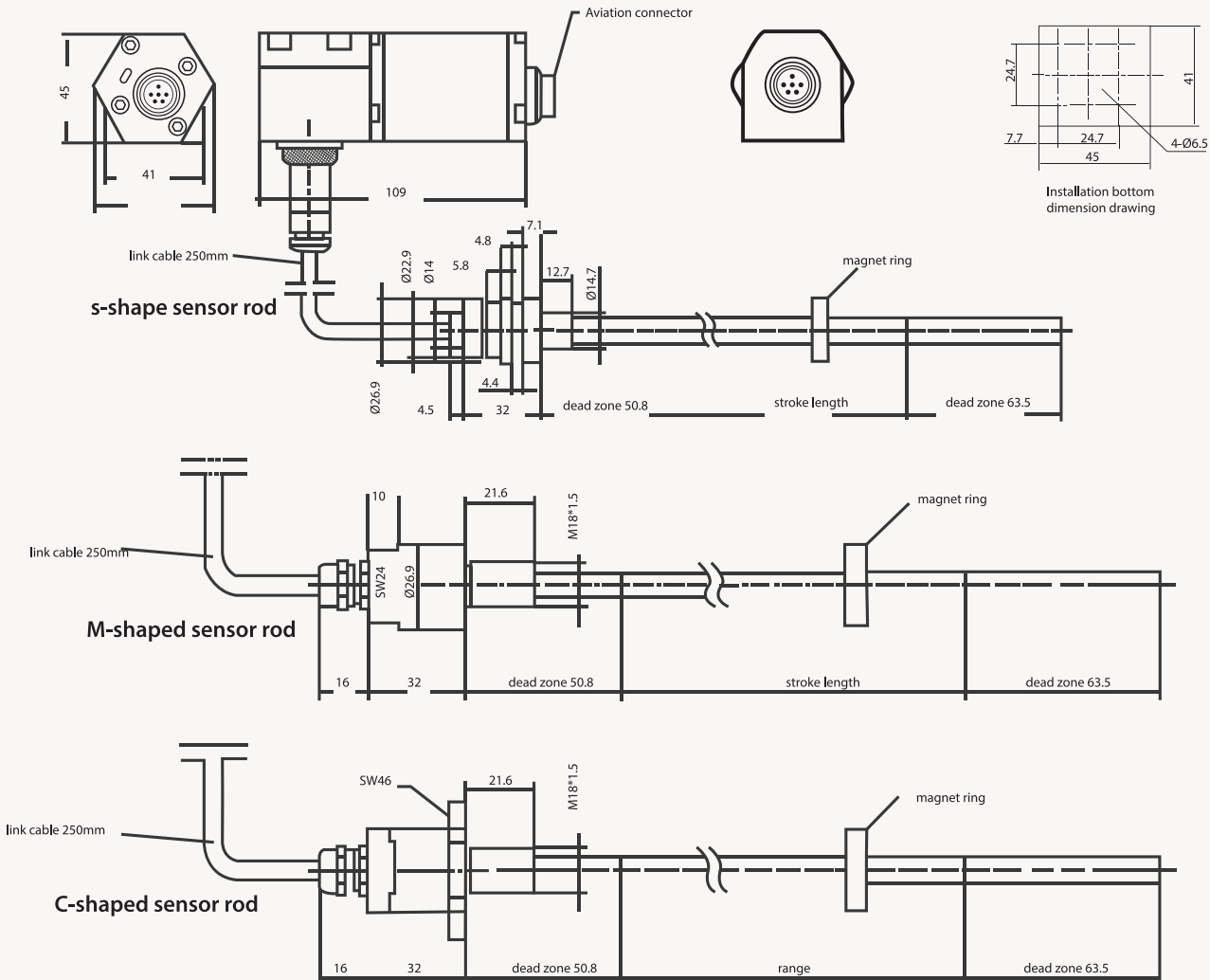
### Analog output pin definition



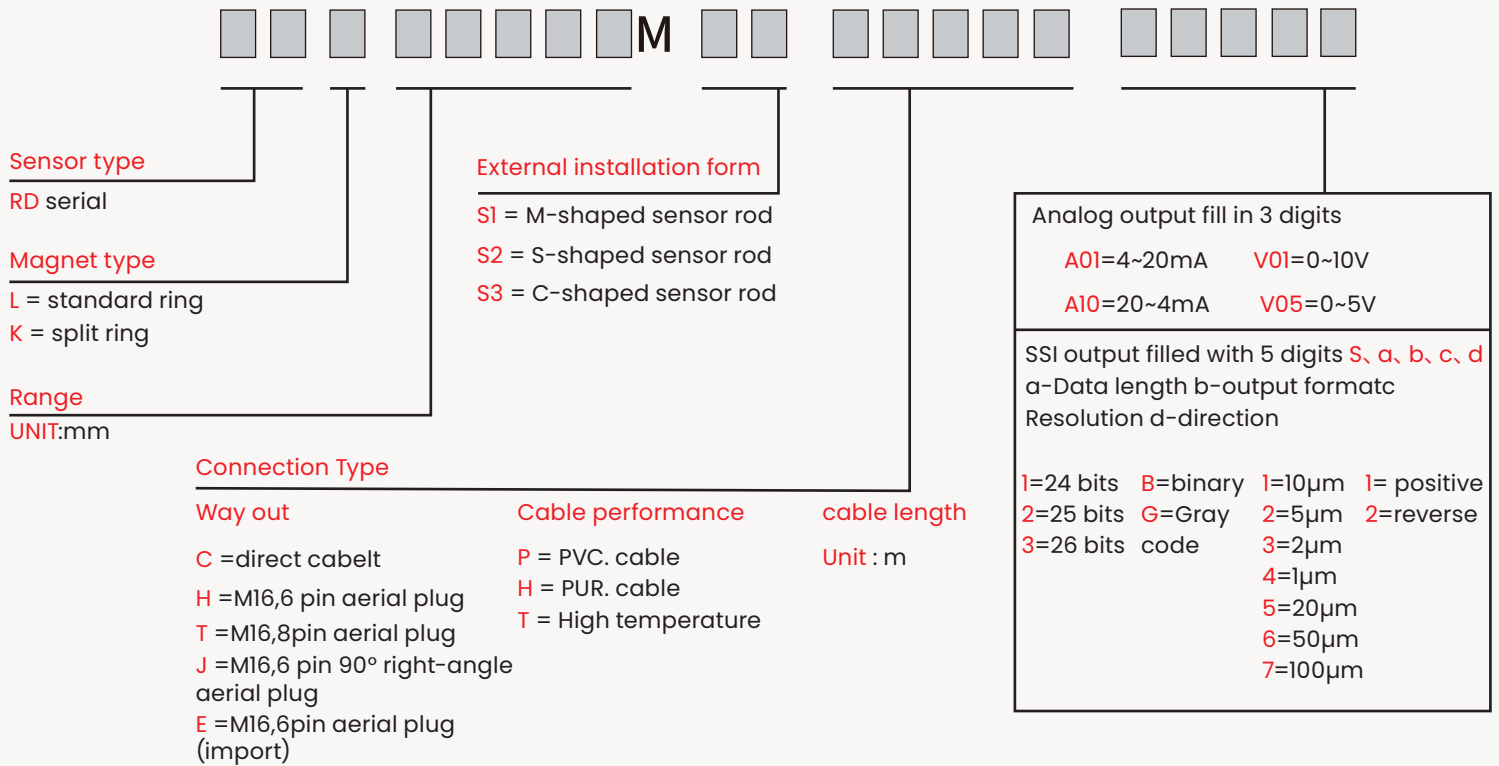
Pin No.  
Arrangement  
of Male Connector  
(Facing the sensor  
head direction)

No	Wire color	Defination
1	Gray	Analog signal output
2	Pink	signal grand
3	Yellow	No connect
4	Green	No connect
5	Brown	No + 24V power (-15/+20%)
6	White	DC power ground (0Vdc)

## Dimensions



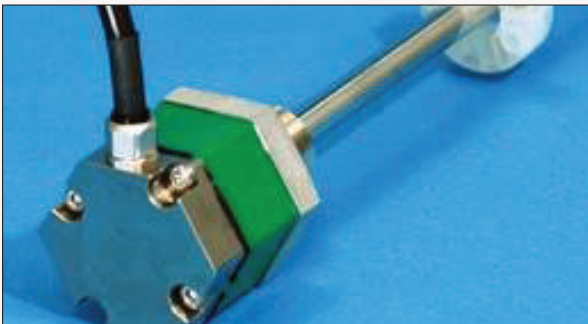
**Selection guide refer to the following figure**



# Analog output

R serial-RH and RP position sensor

Analog output : 4~20mA, 0~20mA, 0~10V, 0~5V



## Features

- Robust and reliable, oil and dirt resistant
- Non-contact measurement, never wear
- Easy to diagnose, LED lights show real-time status Modular design, easy to replace
- Low-power design, effectively reducing system temperature drift

## Structure and Materials

### RH serial

Electronic warehouse	:	Aluminum alloy
Rod	:	304L stainless steel
Position magnet	:	magnet ring, open magnet
Outer pipe pressure	:	35MPa(continuous)/70MPa (peak)

### RP serial

Electronic warehouse	:	Aluminum alloy
Rod	:	Aluminum alloy profiles
Position magnet	:	Suspension magnet
Slider magnet,	:	
Suspension magnet	:	

## Installation

Installation direction	:	Any
Threaded interface	:	M18×1.5, M20×1.5, 3/4-16UNF



# Technical parameter

## Measurement parameters

Range	: 50-7000mm
Output	: 4-20mA (Min/Max load : 0/500 Ω) 20~4mA (Min/Max load : 0/500 Ω) 0~5VDC (Min load>5K Ω) 0~10VDC (Min load>5K Ω) ±10VDC (Min load>5K Ω)
Resolution	: 16 bit D/A
Nonlinearity	: <±0.01%F.S (Min±50µm)
Repeatability	: <±0.001%F.S (Min±1µm)
Update time	: 0.5ms(Min<1m) 1.0ms(1m<range<2m) 2.0ms(2m< range<4m) 4.0ms (4m< range<7m)

## Electrical Characteristics

Outlet mode	: Waterproof connector or six pin aviation plug
Input voltage	: 24VDC (-15/+20%)
Working current	: <60mA (varies with range)
Polarity protection	: Max-30VDC
Overvoltage protection	: Max36VDC
Insulation capacity	: 500V (Between signal ground and shell)

## working conditions

Magnet speed	: Any
Ambient temperature	: -40°C ~+85°C
Humidity/Dew Point	: Humidity 90%, no condensation
Temperature	: <±0.007%F.S/°C
IP grade	: IP65 RPAuminum alloy profiles IP67 RHStainless steel pressure-resistant outer tube

## Electrical connections

### Analog output pin definition

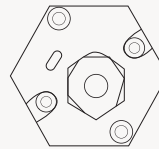


Pin No. Arrangement of Male Connector ( Facing the sensor head direction )

No	Wire color	Defination
1	Gray	Analog signal output
2	Pink	Signal grand
3	Yellow	NO
4	Green	NO
5	Brown	No + 24V power (-15/20%)
6	White	DC power ground (0Vdc)

## Status indication

### Analog output pin definition

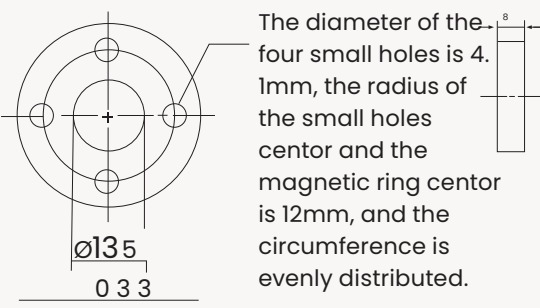


Pin No. Arrangement of Male Connector ( Facing the sensor head direction )

Light status	Defination
green light	Normaol work
green light flashes	programming status
red light flashes	the magnetic ring leaves the effective range
Red light	Megnetic ring not detected or damaged

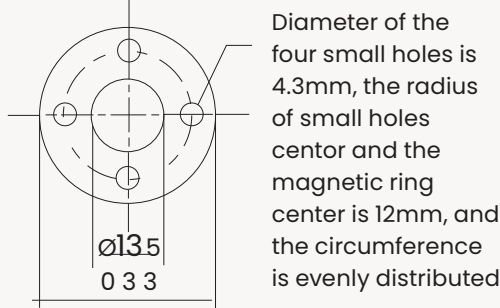


**Vernier ring and accessories size**



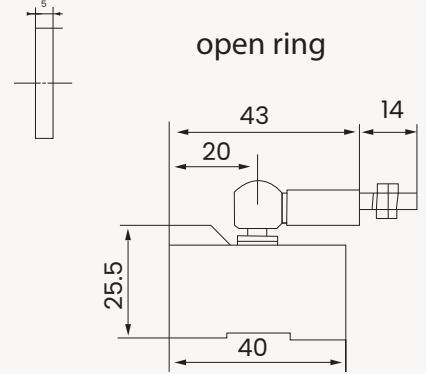
The diameter of the four small holes is 4.1mm, the radius of the small holes center and the magnetic ring center is 12mm, and the circumference is evenly distributed.

**Magnetic Ring**

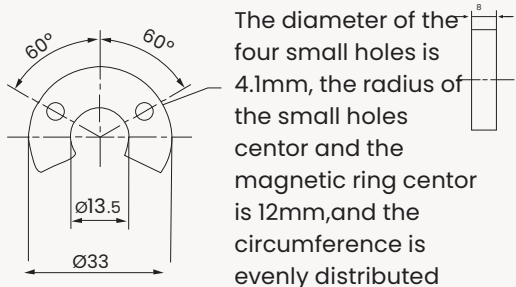


Diameter of the four small holes is 4.3mm, the radius of small holes center and the magnetic ring center is 12mm, and the circumference is evenly distributed

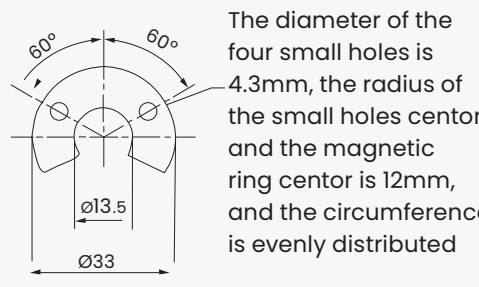
**Magnetic spacer**



**open ring**

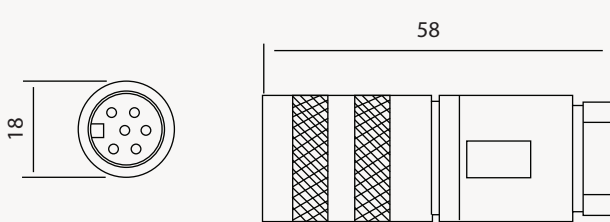


The diameter of the four small holes is 4.1mm, the radius of the small holes center and the magnetic ring center is 12mm, and the circumference is evenly distributed

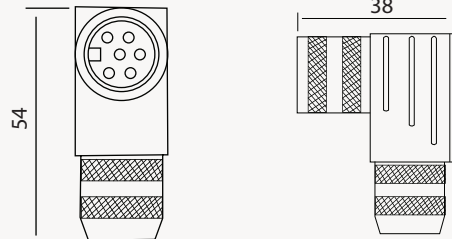


The diameter of the four small holes is 4.3mm, the radius of the small holes center and the magnetic ring center is 12mm, and the circumference is evenly distributed

**Sensor Connector Dimensions**



Six-pin horizontal outlet connector



Six-pin 90° aerial plug connector

**Selection guide**

<p><b>Sensor type</b> RH= Pressure-resistant round tube RP= Aluminum forming shell</p> <p><b>Magnet Type</b> L = Magnet ring V = Open magnet ring T = Slider magnet</p>	<p><b>install thread</b> S1=M18X1.5 S2=M20X1.5 S3=3/4"-16UNF-3A S4=M18X1.5,end withM4X6thread S0=no thread</p> <p><b>Range</b> Unit :mm</p> <p><b>Connector</b> <b>Way out</b> C = Straight out cable Y = waterproof H = M16, 6pin aviation plug T = M16, 8pin aviation plug J = M16, 6pin 90°Right-angle aerial plug E = M16, 6pin aviation plug (import )</p>	<p><b>Output signal</b> A01=4~20mA V01=0~10V A10=20~41mA V05=0~5V</p> <p><b>Cable performance</b> P = PVC cable R = PUR cable G = High temperature cable</p> <p><b>Cable length</b> Unit :m</p>
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## Analog output

R serial-RS position /liquid sensor

Analog output : 4~20mA, 0~20mA, 0~10V, 0~5V



### Features

- Robust and reliable, fully enclosed design ;
- Non-contact measurement, never wear;
- Absolute output; No need to zero;
- Modular design, easy to replace
- Sealed up to IP68;
- Low-power design, effectively reducing system temperature drift;

### Structure and Materials

Electronic warehouse	:	304L Stainless steel
Rod	:	304/316 stainless steel
Position magnet	:	magnet, float
Outer pipe pressure	:	35MPa(continuous)70MPa ( peak )

### Installation

Installation direction	:	Any
Threaded interface	:	M18X1.5, M20X1.5, 3/4 -16 UNF

### Technical parameter

#### Measurement parameters

Range	:	50~7000mm
Rod	:	4~20mA (Min/Max load : 0/500Ω) 20~4mA
	:	(Min/Max load : 0/500Ω)
	:	0~5VDC (Min load >5KΩ)



0~10VDC (Min load > 5KΩ)

±10VDC (Min load > 5KΩ)

Resolution : 16 bit/D/A

Nonlinearity : < ±0.01% F.S (Min ±50 μm)

Repeatability : < ±0.001% F.S (Min ±1 μm)

Update time : 0.5ms (Min < 1m) 1.0ms (1m < range < 2m)

2.0ms (2m < range < 4m) 4.0ms (4m < range < 7m)

## Electrical Characteristics

Outlet mode : Direct outlet or aviation plug

24VDC aviation plug

Input voltage : (-15/+20%)

Working current : < 60mA (varies with range)

Polarity protection : Max -30VDC

Over voltage protection : Max 36VDC

Insulation capability : 500V (between signal ground and Shell)

## working condition

Magnet speed : Any

Ambient temperature : -40°C ~ +85°C

Humidity/dew point : Humidity 90%, no condensation

Temperature : < ±0.007% F.S / °C

## Electrical connections

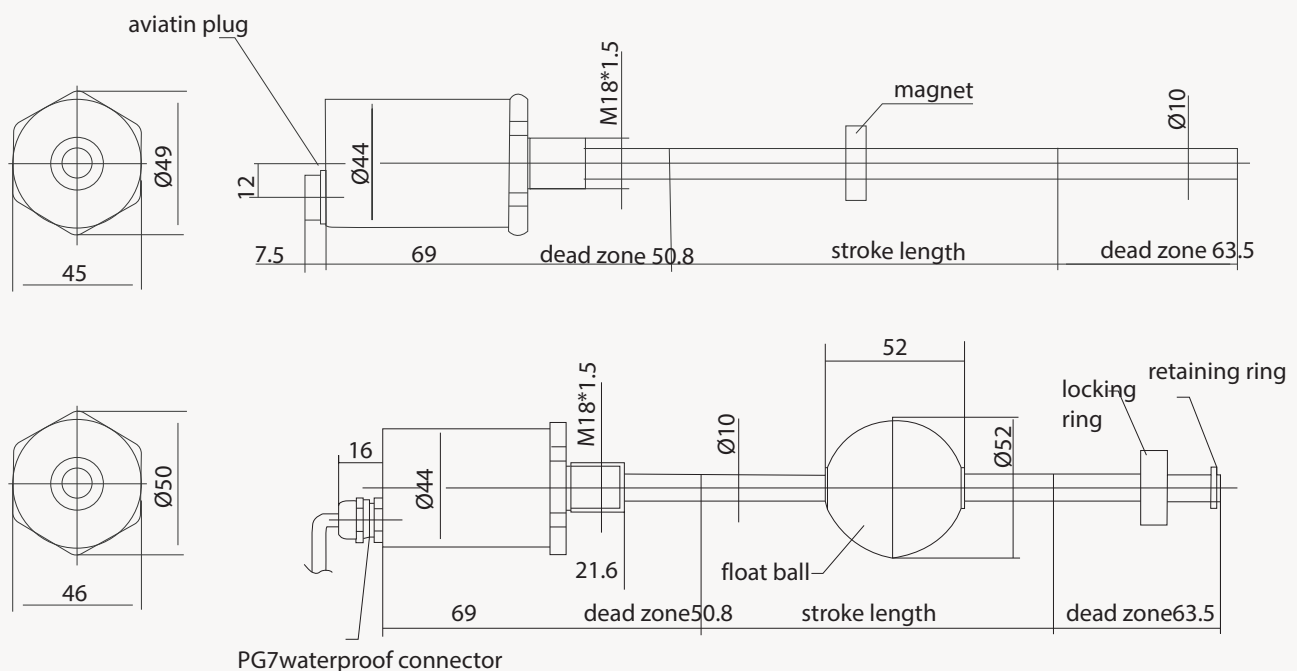
Analogue output pin definition

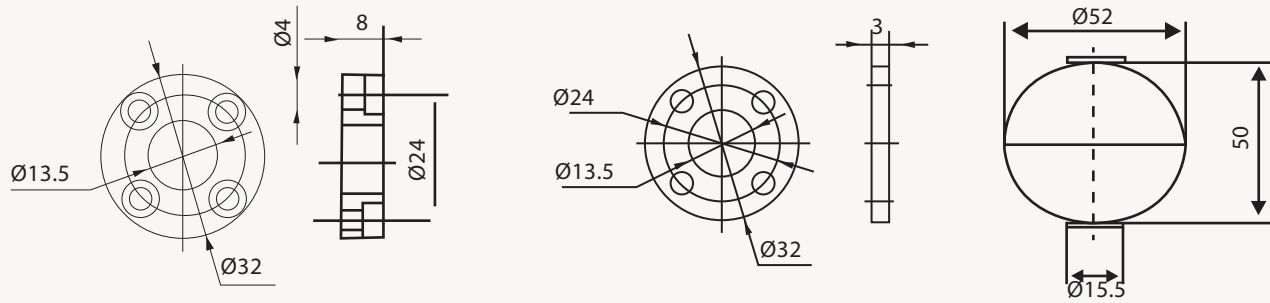


Pin No.  
Arrangement of  
Male Connector  
(Facing the sensor  
head direction)

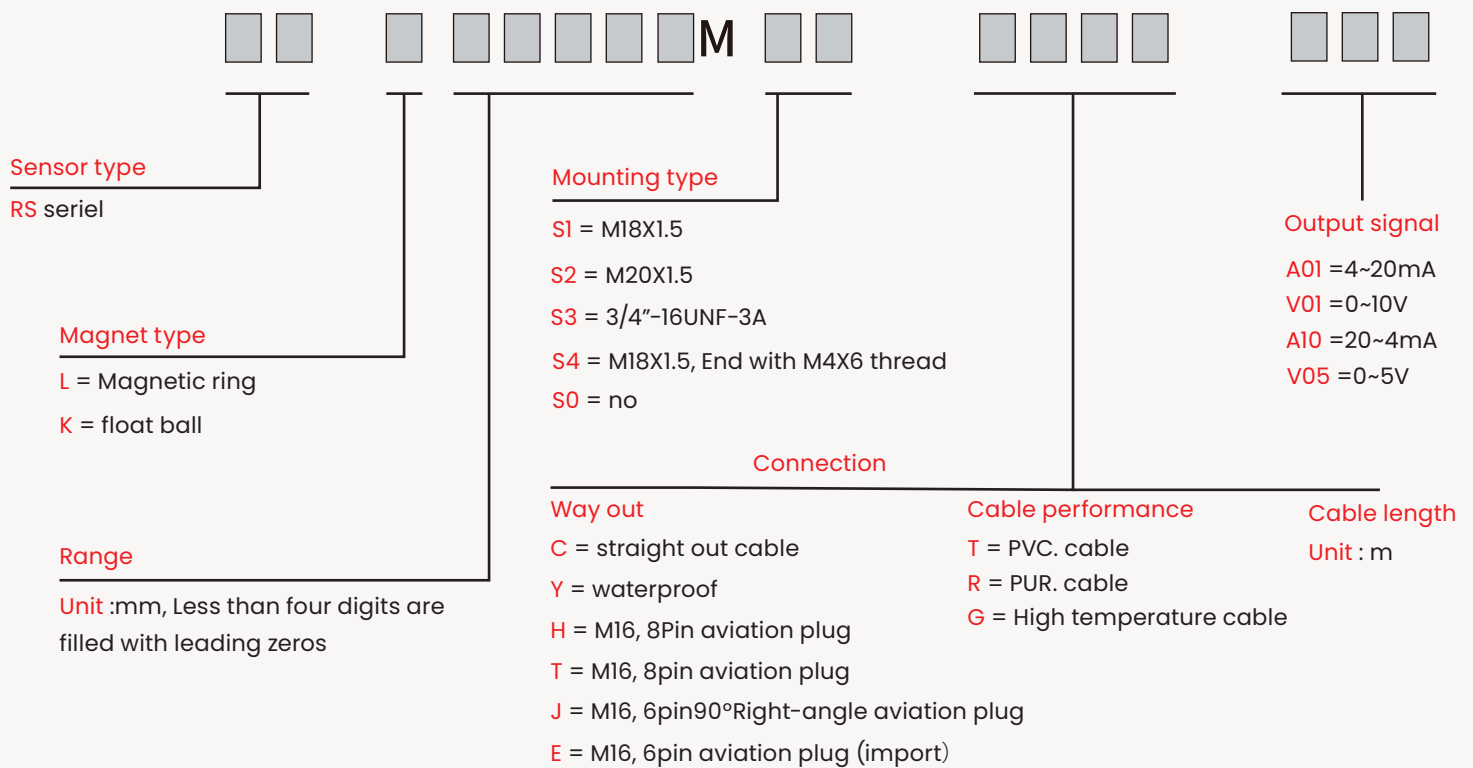
No	Wire color	Defination
1	Gray	Analog signal output
2	Pink	signal grand
3	Yellow	No
4	Green	No
5	Brown	No + 24V power (-15/+20%)
6	White	DC power ground (0Vdc)

## Dimensions



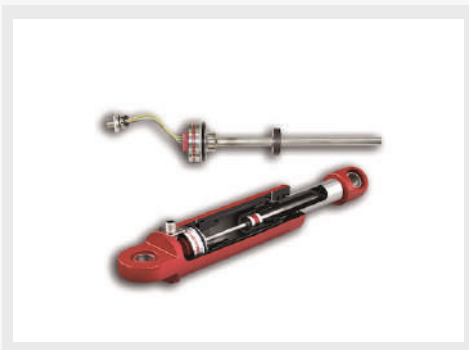
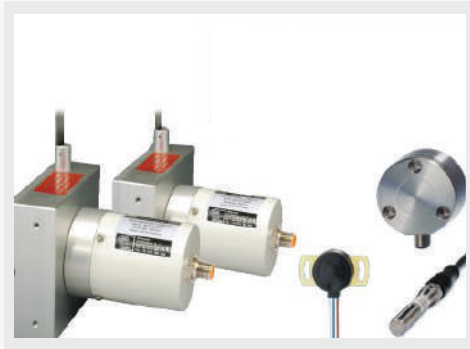
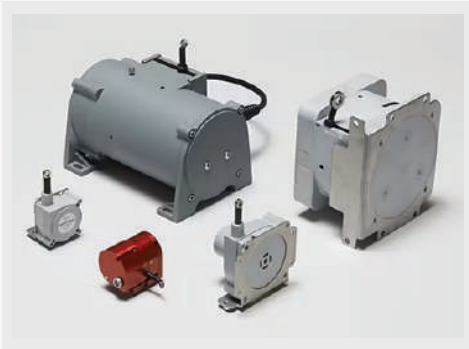


## Selection guide





**TECHNICAL DATA ANALOG OUTPUT**

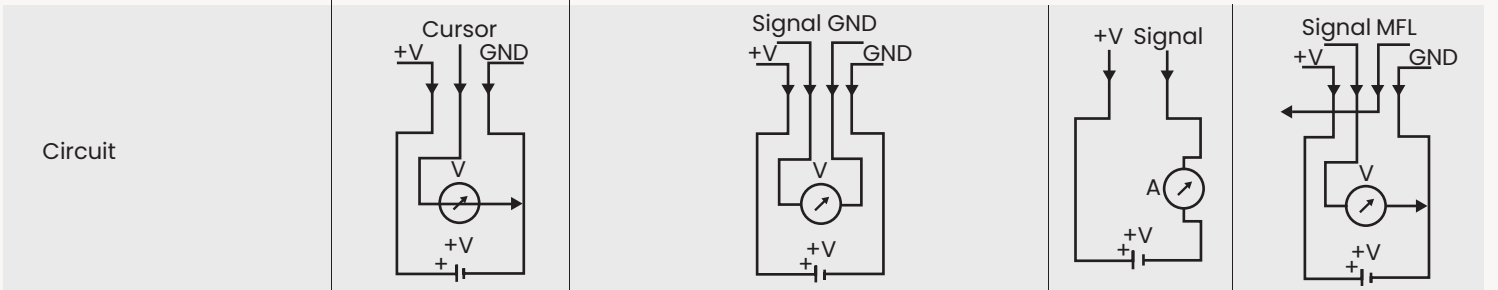


**TECHNICAL DATA ANALOG OUTPUT**

Measurement, range MR <sup>1)</sup>	{ mm }	300	4000	5000
Linearity	{ % }		±0.1	
Improved linearity (optional)	{ % }		±0.05	
Resolution			see output types below	
Sensor element			Hybrid Potentiometer	
Connection			connector output M1 2 or cable axial (TPE cable)	
Protection Class			IP65, optional IP67	
Humidity			max, 90 % relative, no condensation	
Temperature			see output types below	
Machanical data		Etraction force, max. velocity and max. acceleration see Machanical Data"		
Housing		Aluminium, anodised, spring case PA6		
Draw wire		stainless steel V2A Ø 0.5 mm		
Weight	{ g }	1300 to 1600, depending on the measurement range		
<sup>1)</sup> others on request				

**ELECTRICAL DATA ANALOG OUTPUT**

Output type	Potentiometer			Voltage <sup>1)</sup>				Current	Voltage (teschable)		
Order Code	1R	5R	10R	4,5V	5V	55V	10V	420A	SVT	10VT	
Output	1 kΩ	5 kΩ	10 kΩ	0.5...4.5 V	0.5...5 V	-5...+5V	0...10V	4...20 mA	0...5V	0...10V	
Supply	max, 30V			8...30 VDC		12...30VDC		12...30VDC <sup>2)</sup>	8...35 VDC		
Recommended cursor current	<1 uA			-							
Current consumption max.	-			max. 25 mA (no load)				-			
Power consumption max.	-			-				max. 200mW			
Output current	-			max. 10 mA, min. load 10 kΩ				max. 50 mA in case of error <sup>3)</sup>		max. 10 mA, min. load 1 kΩ	
Dynamics	-			<3 ms from 0... 100 % and 100...0 %				<1 ms from 0... 100%and 100...0%		1 ms	
Resolution	-			Theoretically unlimited, limited by the noise				1 mV			
Noise	depends on the quality of the power supply			0.5mV <sub>off</sub>				1.6 uV <sub>off</sub>		2 mV <sub>OFF</sub>	
Inverse-polarity protection	-			yes				-		-	
Short-circuit proof	-			yes				-		yes	
Operating temperature	-20...+85 °C / optional: -40...+85 °C or -20...+120 °C			-20...+85 °C/ optional:40...+85 °C							
Temperature coefficient	±0.0025 %/K			0.0037 %/K				0.0079 %/K		0.0016 %/K	
EMC	-			According to EN 61326-1:2013							



MFL = multi-functional line

<sup>1)</sup> Galvanically isolated  
<sup>2)</sup> Load: 250 Ωv (max. 500Ω)  
<sup>3)</sup> Load: max. 0.5 kΩ

**TECHNICAL DATA DIGITAL OUTPUT INCREMENTAL**

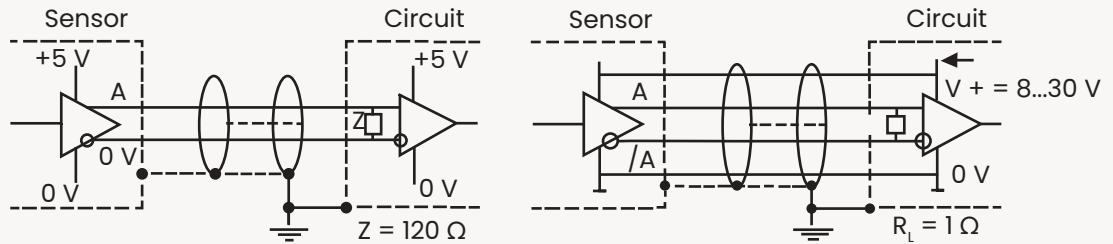
Measurement, range MR <sup>1)</sup>	[ mm ]	300	4000	5000
Linearity	[ % ]	±0.05		
Improved linearity (optional)	[ % ]	±0.02 (only in combination with resolution 6.3 pulses/mm, or higher)		
Resolution <sup>1)</sup>	[ pulses/mm ]	0.3 / 3.1 / 6.3 / 15.7 (the resolution can be raised by the factor 4 using quadruple edge detection)		
Z-pulse distance	[ mm ]	317.68		
Sensor element		Incremental -Encoder with optical code disk		
Output signal		A, B and Z pulse (plus inverted pulses /A /B and /Z)		
Connection		connector output M12 radial or cable output radial (PVC cable)		
Protection class		IP65, optional IP67		
Humidity		max. 90% relative, no condensation		
Operating temperature	[ °C ]	-20...+85		
Machanical data		extraction force, max. velocity and mac. acceleration see Machanical Data"		
Housing		aluminium, anodised, spring case PA6		
Draw wire		stainless steel V2A ø 0.5 mm		
Weight	[ g ]	1300 to 1600, depending on the measurement range		

<sup>1)</sup> others on request

**ELECTRICAL DATA DIGITAL OUTPUT INCREMENTAL**

Output type		Line driver L RS422 (TTL compatible)	Push Pull G (HTL)
Supply +V	[VDC ]	5 ± 5 %	10...30
Current consumption (no load)	[ mA ]	max. 90 (typical 40)	max. 100 (typical 50)
Load / channel	[ mA ]		max. ± 20
Pulses frequency	[ kHz ]		max. 300
Signal level high	[ V ]	min. 2.5	min. +V-1
Signal level low	[ V ]		amx. 0.5

Recommended circuit

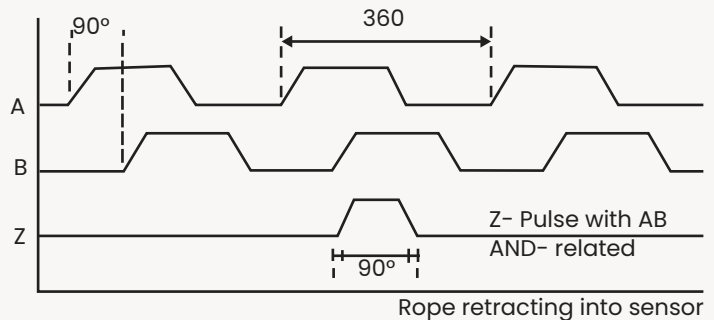


**OUTPUT SIGNAL DIGITAL OUTPUT INCREMENTAL**

**Output signal**

Pulses A and B are 90° phase-delayed ( detection of direction ). The Z-Pulse is emitted once per turn. The Z-Pulse distance is 317.68 mm ( = circumference of the rope drum ) and can be used as a reference mark,

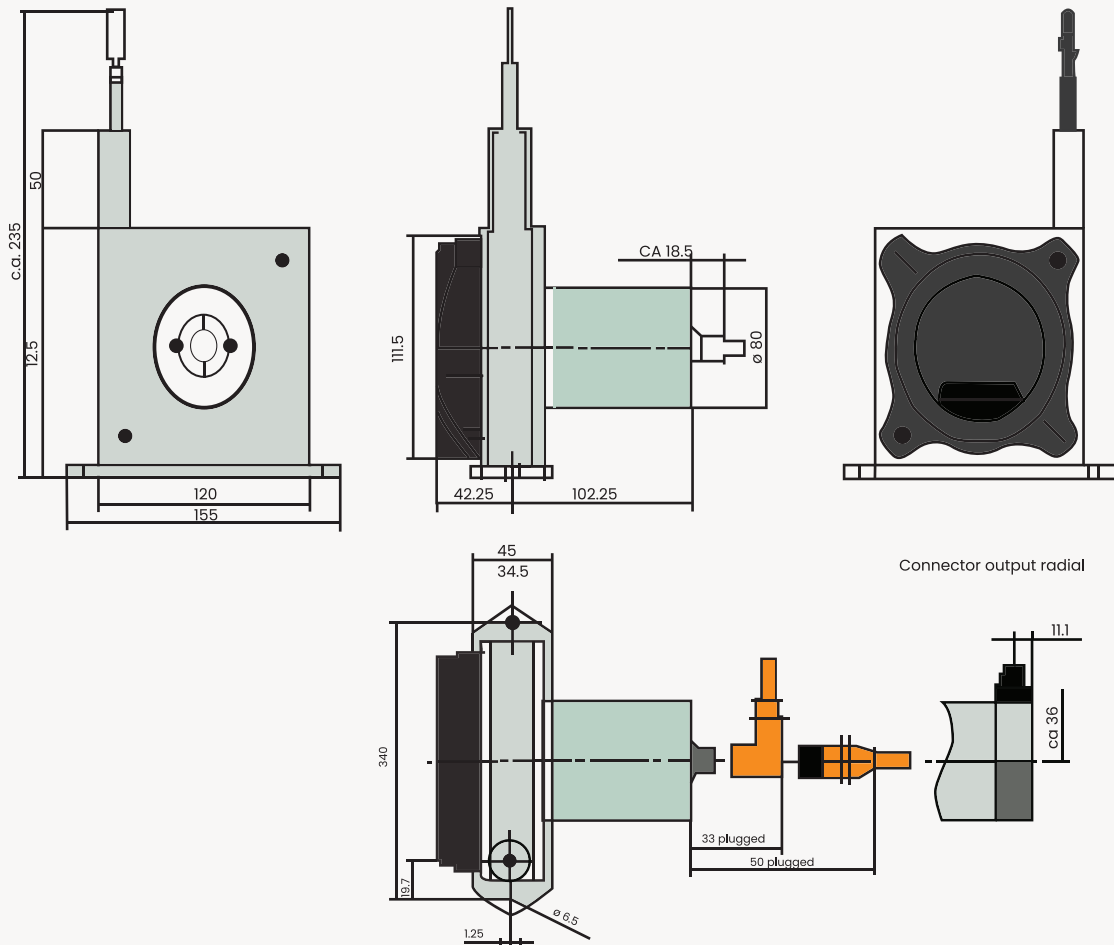
( The diagram shows the signal without inverted signals : time line for return of rope, )



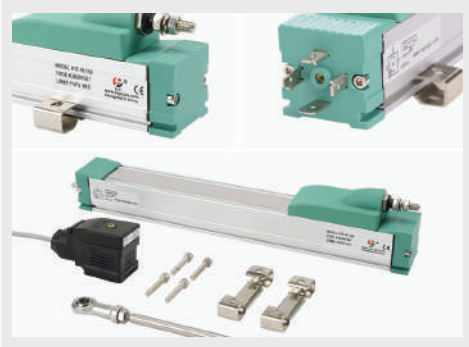
**ELECTRICAL DATA DIGITAL OUTPUT ABSOLUTEOPEN (WCAN)**

Link to the manual		<a href="#">CANiopen manual</a>
CAN specification		Full CAN 2.0B ( ISO 11898 )
Communication profile		CANopen CiA 301 V 4.2.0
Device profile		Encoder, absolute linear, CIA 406 V 3.2.0
Error control		Producer Heartbeat, Emergency Message, Node Guarding
Node ID		Default: 7, configurable via SDO and squeezer ( offline configuration ) <sup>1)</sup>
PDO		1 x TPDO, static mapping
PDO Modes		Event - triggered, Time - triggered, Sync, Sync-acyclic
Transmission rate		1 Mbps, 800, 500, 250, 125, 50, 20 kbps configurable via SDD and Square
Integrated Bus termination resistor		120 Ω, connectible via Sdo and Squeezer ( offline configuration ) <sup>1)</sup>
Bus, galvanic separation		No
Supply	[ VDC ]	8...30
Current consumption		10 mA typical at 24 V, 20 mA typical at 12 V
Measurement rate		1 kHz with 16-bit resolution
Electrical protection		inverse polarity protection
Temperature coefficient	[ %/K ]	0.0014
EMC		DIN en61326-1:2013, conformity with directive 2014/30/EU

For mor information on the offline configuration please refer to the [CANiopen manual](#)



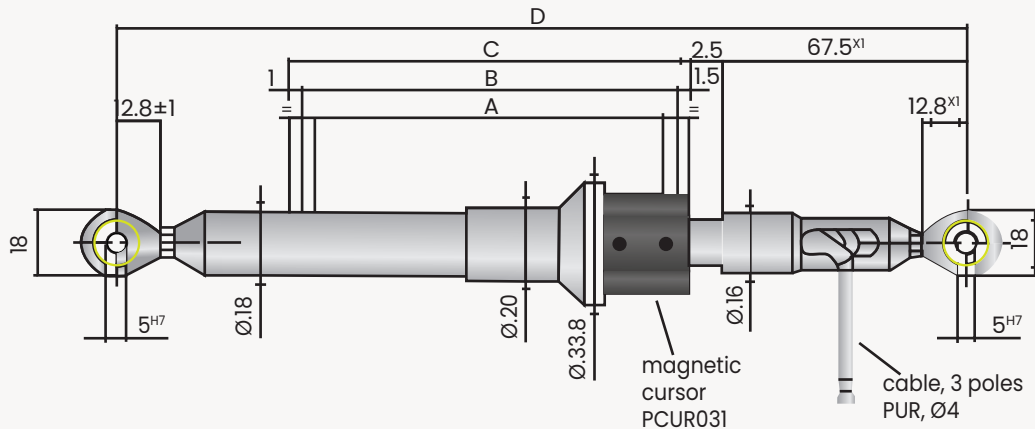
**TECHNICAL DATA**



**TECHNICAL DATA**

Measurement, range	[mm]	50   100   150   200   250   300   350   400   450   500   550   600   650   700   750   850   900   950   1000
Linearity	[%]	±0.1 ±0.05
Repeatability	[mm]	≤0.08
Resolution		theoretical infinite, depends on the signal quality of the reference respectively supply voltage
Sensitivity ( without hysteresis)	[mm]	0.05...0.1
Hysteresis	[mm]	<0.25
Displacement force	[N]	<0.5
Displacement speed	[m/s]	<5
Acceleration max.	[m/s <sup>2</sup> ]	<10
Resistance	[kΩ]	5   10   20
Tolerance on resistance	[%]	±20
Dissipation at 40 °C (0 W at 120 °C)	[W]	1   2   3
Applicable voltage max.	[V]	40 60
Recommended cursor current	[UA]	<0.1
Cursor current max.	[mA]	10
Electrical isolation		>100 MΩ AT 500 VDC, 1 bar, 2 s
Dielectric strength		<100µA at 500 VAC, 1 bar, 2 s
Protection class		IP67
Operating temperature	[°C]	-30...+100
Storage temperature	[°C]	-50...+120
Temperature coefficient resistance		±200 ppm/°C
Temperature coefficient output voltage		≤5 ppm/°C
Vibration resistance		5...2000 Hz, A <sub>max</sub> = 20 g
Shock resistance		50 g, 11 ms
Life cycle		>25 x 10 <sup>6</sup> mor > 100 x 10 <sup>6</sup> operations ( whichever is less )
Connection		cable output ( 1 m)n, 3 poles
Housing		anodised aluminium, PSU
Cursor		POM
Mounting		rod end bearings

**TECHNICAL DRAWING**



Useful electrical stroke +3/-0	A	=measurement range
Theoretical electrical +3/-0	B	measurement range +1
Machanical stroke	C	measurement range +5
Min. distance ball-joint +3/-5	D	measurement range +158



## TECHNICAL DATA SENSOR

Measurement, range	[ mm ]	2	5	10
Linearity <sup>1)</sup>	[ %F.S. ]	<±0.5 / optional]: < ±0.35		
Sensitivity	[ mV/V/mm ]	130	105	60
Calibrated at		3V <sub>RMS</sub> / 40 kHz / RL = 1 MΩ		
Excitation voltage	[ V <sub>RMS</sub> ]	3		
Excitation frequency	[ kHz ]	40		
Input resistance typ.	[ Ω ]	120		
Input Impedance typ.	[ Ω ]	610		
Output impedance typ.	[ Ω ]	520		
Connection		Cable output 1 m, axial, 5 poles		
Protection class		IP65		
Operating temperature	[ °C ]	-25...+85		
Storage temperature	[ °C ]	-40...+85		
Temperature coefficient zero signal	[ % F.S./K ]	±0.02		
Shoke resistance		200 g, 2 ms (DIN IEC68T2-27)		
Vibration resistance		10 G, 2...2000 Hz ( DIN IEC68T2 - 6 )		
Housing		Nickel plated steel		
Core		Nickle iron alloy		
Core weight	[ g ]	1.5		

<sup>1)</sup> If used with the DIN rail electronics LVA linearity is ±1 % F.S.

## TECHNICAL DATA ELECTRONICS

		DIN rail electronics LVA	Cable electronics LVC
Output		0...10V / 4...20 mA	
Linearity <sup>1)</sup>	[ % F.S. ]	<±0.01	
Noise	[ mV <sub>RMS</sub> ]	<20	<5 ( DC...20 MHz )
Supply	[ VDC ]	18...36	24±10%
Current consumption ( without load )	[ mA ]	<80 ( at 24 V / <100 ( at 18 V )	<80 ( at 24 V )
Isolation voltage	[ VDC ]	500	
Isolation resistance		1 GΩ at 500 VDC	
Cut-off frequency		max. 10 % excitation frequency	
Sensor supply	[ V <sub>RMS</sub> ]	3	4
Carrier frequency	[ kHz ]	20	40
Protection class		IP40	
Operating temperature	[ °C ]	-25...+85	
Storage temperature	[ °C ]	-25...+85	
Temperature coefficient sensitivity	[ % F.S./K ]	<±0.04	<±0.02
Temperature coefficient zero point	[ % F.S./K ]	<±0.015	<±0.01
Mounting		DIN rail	2 X mounting holes M3
Housing		Polymide PA6.6	Aluminium anodised

<sup>1)</sup> To achieve an optimal measuring result, it is recommended to power up the electronics for 10 minutes before the measurement.

MANUFACTURE OF INDUSTRIAL FAN SAFETY NET COVER



PERFECT SOLUTION FOR THE HUMAN SAFETY, WHAT WE DESERVE IT ....!!!



## ABOUT US :

We have first time introduce in market, fan Safety net cover making by UV Stabilized HDPR plastic with Quick & Easy Fixing – Opening Concepy.

We are an engaged in manufacturing, exporting and supplying a comprehensive range of products, which are highly appreciated by our clients, Owing to their salient features like standard designs, Finger protection, High Quality & Durable product, Easy & Quick fixing and Opening, and Washables Product.

## CLIENT SATISFACTION :

Being a fast evolving organization, we strive for providing almost satisfaction to our clients. We provide innovative and high – quality Product to Our Client Which helps in maintaininf long – term relationships.

## TECHNICAL SPECIFICATION :

MATERIAL	: - High Quality Virgin Grade HDPE
ADVANCE FEATURES	: - UV Stabilized
MESH SIZE	: - 12 mm
MESH STRUCTURE	: - Hexagonal
THICKNESS	: - 1.50 mm
COLOR	: - Natural White
FAN SIZE COVER	: - 400 mm (16"), 450 mm (18"), 600 mm (24"), 750 mm (30"), 900 mm (36")
LIFE & WARRANTY	: - 5 Years

**SPECIAL AND CUSTOMIZATION WILL BE PROVIDED AS PER CLIENT DEMAND AND AREA.**

## AVAILABLE FAN COVER WITH BELOW BRANDS.



## FEATURE & BENIFITES :

- Make a 100% Finger cut protection from Both Side of Fan.
- Easy Installation, removal and Re-installation
- Strong & Flexible
- No Risk of Human Injury
- UV Stabilized and rust proof
- No Need to painting
- Maintenance Free and Economical
- Suitable for Cleaning by Air and Washables
- No More Air Obstruction



OUR INNOVATED PRODUCT MAKE 100%  
FINGER PROTECTION FROM RUNNING FAN IN YOUR AREA.  
AND HELP TO ACHIEVE COMPANY SAFETY GOAL



## SENSORS WORLD REPLACE BELLOW BRANDS



PERFECT SOLUTION FOR THE HUMAN SAFETY, WHAT WE DESERVE IT ....!!!

The best ones for you



- 📍 B No. R2/203, Lig1, Vatrak Apartment, Nal Sarover Road, Sanand - 382110, Gujrat, India.
- ☎ +91 90338 35070 | 74051 82329
- ✉ yashsafetyindia@gmail.com | sales@sensorsworld.net
- 🌐 www.yash-india.com | www.sensorsworld.net