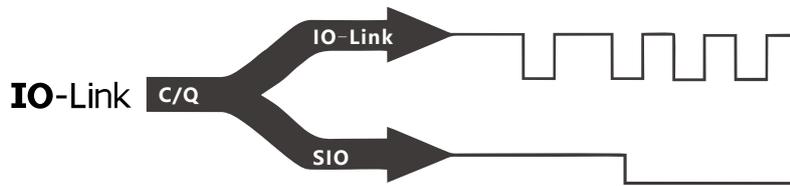




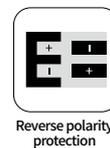
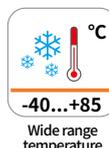
# GL2-IO-Link

GL2-Series

Data Sheet



- + Updated new generation: stronger performance
- + Easily installed: integrated design, no protruding electronics housing
- + Easy to use: standard signal output, maintenance free
- + Widely applicated in forging, building materials, rubber and plastic machinery and other fields
- + IO-Link signal output



# TECHNICAL PARAMETER

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<b>Input</b>	Measured data	Position/Speed			
	Position measurement range	50mm...4500mm			
	Speed measurement range	0.01...10m/s			
<b>Output</b>	Interface	IO-Link 1.1			
	Data format	32-bit signed			
	Process data	0 Byte			
	Master – Device				
	Transmission rate	Rate(bit/s)	4800	38400	230400
		Port	COM1	COM2	COM3*
<b>Resolution</b>	Position resolution	1/2/5*/10/20/50/100µm			
	None-Linearity	< ±0.01%F.S. (min. ±50µm)			
	Repeatability	< ±0.002%F.S. (min. ±10µm)			
	Update time	Stroke length	≤ 1200mm	≤ 2400mm	≤ 5600mm
		Update time	0.5ms	1ms	2ms
	Temperature coefficient	< 30ppm/°C			
<b>Mounting</b>	Mounting position	Any			
	Fixation	Removable fixing card			
<b>Design/ Material</b>	Sensor cap	Aluminum alloy/Zinc alloy			
	Sensor profile	Aluminum alloy			
<b>Electrical connection</b>	Wiring connection	5 pin M12 connector			
	Operating voltage	+24VDC(-15/+20%)			
	Polarity protection	Up to -36VDC			
	Overvoltage protection	Up to +36VDC			
	Power consumption	< 40mA (varies with range size)			
	Dielectric strength	500 VDC (DC ground to machine ground)			
<b>Operating conditions</b>	Magnet speed	Slider magnet ≤ 10m/s; suspension magnet, any.			
	Operating temperature	-40...85°C			
	Humidity	90 % relative humidity, non- condensation			
	Ingress protection	IP67 ( when connector is fitted)			
	Shock	100 g (single shock) IEC standard 60068-2-27			
	Vibration	15g/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			

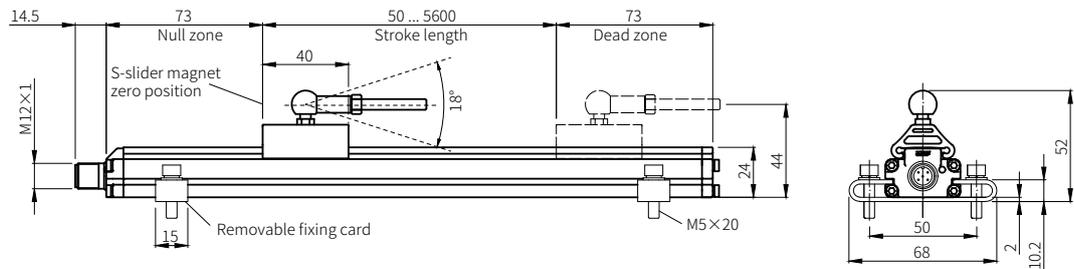
ITEM	CATEGORY	PARAMETER
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**Note: “\*” as default**

**5 pin M12 connector**

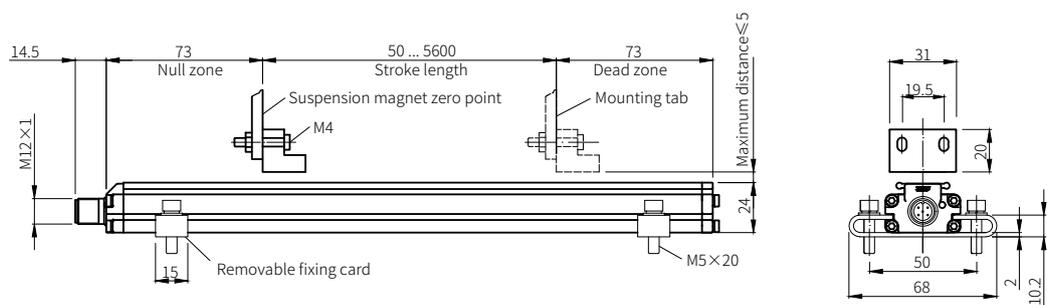
S-slider magnet

GL2-S- \_\_\_\_ - D512- \_\_\_\_



Suspension magnet

GL2-F- \_\_\_\_ - D512- \_\_\_\_



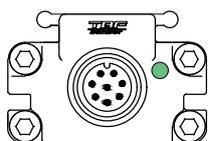
**FUNCTION -IO-Link**

PIN-male	1	2	3	4	5
Function	+24VDC(-15/+20%)	NC	GND	C/Q (communication line)	NC



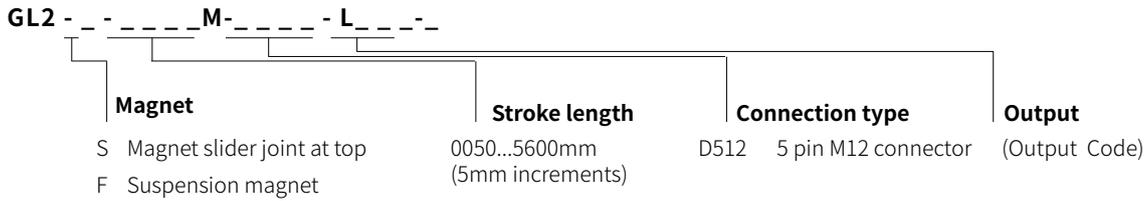
View on sensor

**Enhanced monitoring and diagnostic functions**



light	Function
Red	Magnet cannot be measured, nor magnet number is correct
Green	Normal work
OFF	Communication exception

The built-in LED indicator light provides basic fault feedback and fault alarm of the sensor.



IO-Link Output Code	L [1][2][3]-[4]			
L Interface	[1] Resolution	[2] Output	[3] IO-Link version	[4] Magnet number
L IO-Link	1 5µm*	1 Position	1 V1.1, COM 1	1 one magnet *
	2 2µm	2 Position and speed*	2 V1.1, COM 2	2 two magnets
	3 10µm	3 2 positions	3 V1.1, COM 3*	
	4 50µm	4 2 positions and 2 speeds		
	5 100µm	5 Configurable outputs		
	7 20µm			
	8 1µm	(Speed : µm/s)		

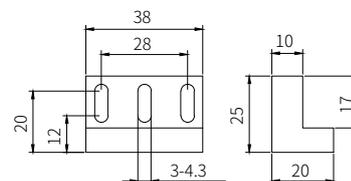
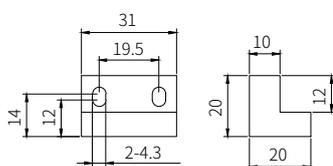
**Note: “\*” as default**

Model selection	Model: GL2-F-0600M-D512-L123-1
	Explanation: GL2 type II generation, suspension magnet, stroke length 600mm, 5 pin M12 connector, IO-Link output, resolution 5µm, position and speed measurement, V1.1, COM3, single magnet.

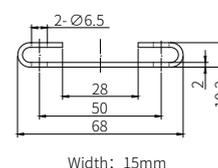
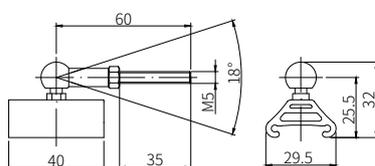
■ Please contact us for more customized products.

**PARTS SELECTION**

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Name	Suspension magnet 31x20	Suspension magnet 38x25
Operating temperature	-40...105°C	
<b>Order code</b>	<b>12-1010</b>	<b>12-1009</b>



Name	Magnet slider S, joint at top	Removable fixing card
Operating temperature	-40...105°C	/
<b>Order code</b>	<b>12-1116</b>	<b>11-1060</b>



Connector	5 pin M12 female connector	5 pin M12 female connector (90 degree angle)
Name	Integral cable	Integral cable
Cable	5 wire 0.25mm <sup>2</sup> shielded cable	5 wire 0.25mm <sup>2</sup> shielded cable
Color/Diameter	Orange/ Ø 6	Orange/ Ø 6
Plug surface	<ul style="list-style-type: none"> <li>1-Brown</li> <li>2-Green</li> <li>3-White</li> <li>4-Gray</li> <li>5-Yellow</li> </ul>	<ul style="list-style-type: none"> <li>1-Brown</li> <li>2-Green</li> <li>3-White</li> <li>4-Gray</li> <li>5-Yellow</li> </ul>
Length	5...30M	5/10/15/20/30M
<b>Order code</b>	<b>16-1035</b>	<b>16-1040</b>

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