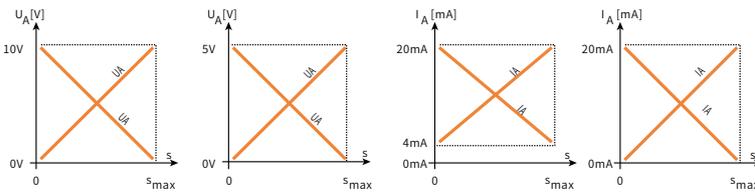


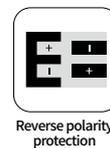
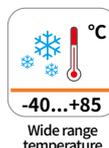
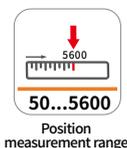


GL2-Analog(+IO-Link)

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 Condition monitoring and configuration



TECHNICAL PARAMETER

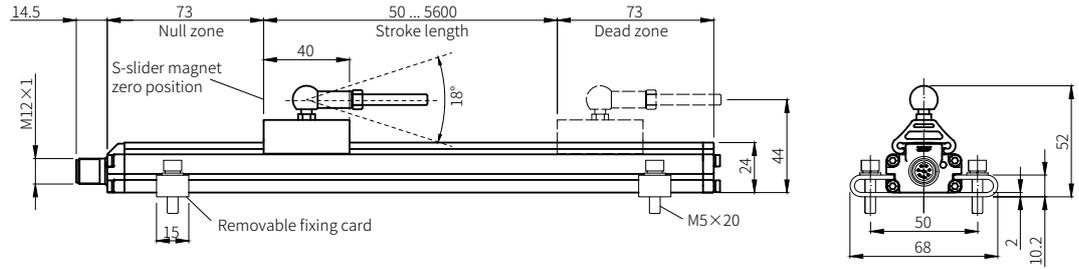
TECHNOLOGY PERCEIVES THE FUTURE

Input	Measured data	Position/Velocity			
	Measurement range	50mm...5600mm			
Output	Interface	Analog (+IOlink)			
	Voltage	0...10VDC, 10...0VDC, 0...5VDC, 5...0VDC (Controller min. load impedance >5KΩ)			
	Current	4...20mA, 20...4mA, 0...20mA, 20...0mA (min./max. load 0/750Ω)			
Resolution	Resolution	16 bit D/A			
	None-Linearity	< ±0.02%F.S. (min. ±50μm)			
	Repeatability	< ±0.005%F.S. (min. ±20μm)			
	Update time	Stroke length	≤ 1200mm	≤ 2400mm	≤ 5600mm
		Update time	0.5ms	1ms	2ms
Temperature coefficient	< 30ppm/°C				
Mounting	Mounting position	Any			
	Fixation	Removable fixing card			
Design/ Material	Sensor cap	Aluminum alloy/Zinc alloy			
	Sensor profile	Aluminum alloy			
Electrical connection	Wiring connection	M12 connector (8 pin)			
	Operating voltage	9VDC...36VDC			
	Polarity protection	Up to -36VDC			
	Overvoltage protection	Up to +36VDC			
	Power consumption	< 70mA (varies with range size)			
	Dielectric strength	500 VDC (DC ground to machine ground)			
Operating conditions	Magnet velocity	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			

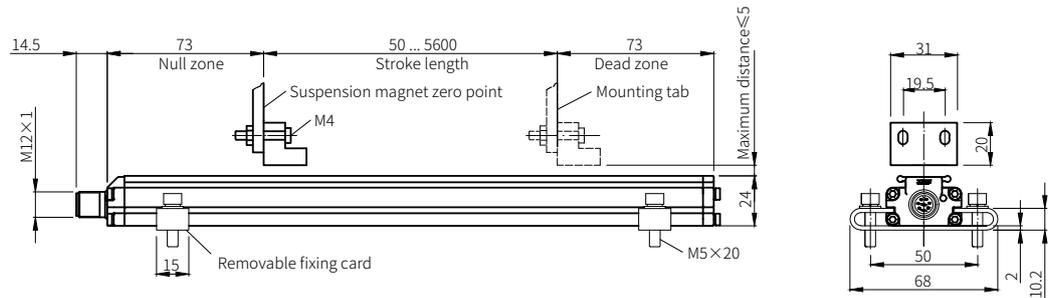
8 pin M12 connector

GL2- ____ - **D812**- ____

S-slider magnet



Suspension magnet



FUNCTION -Analog(+IO-Link)

PIN-male	1*	2	3*	4	5	6	7	8
Function	SGND 2*	SGND 1	Signal output 2*	C/Q (communication line)	Signal output 1	GND	24 VDC (-15/+20%)	NC

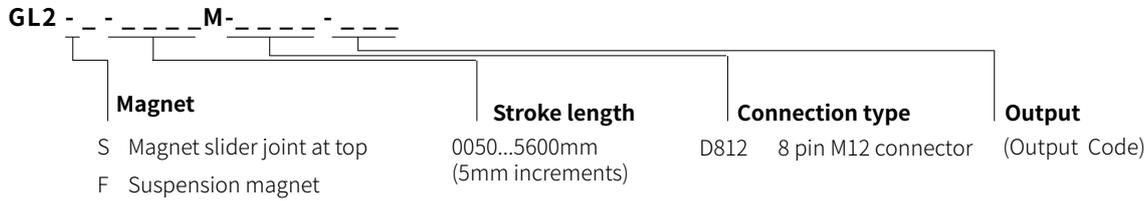


View on sensor

"*"adaptable for dual output signal connection

ORDER CODE

TECHNOLOGY PERCEIVES THE FUTURE



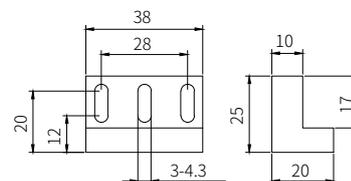
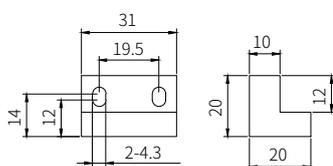
Analogue Output Code	[1][2]-[3][4] [5]		
[1] System	[2] Output	[3][4] Current/Voltage	[5] Magnet
L +IO-Link (Condition monitoring and configuration)	1 Position 2 Position and velocity 3 Position and reverse position 5 Position and temperature inside the sensor electronics housing 6 Position and rate	A0 4...20mA (forward) A1 20...4mA (reverse) A2 0...20mA (forward) A3 20...0mA (reverse) V0 0...10V (forward) V1 10...0V (reverse) V2 0...5V (forward) V3 5...0V (reverse)	1 one magnet 2 two magnets

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.

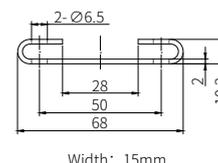
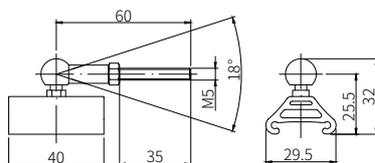
Model selection	Model: GL2-F-0600M-D812-L1-A01
	Explanation: GL2 type II generation, suspension magnet, stroke length 600mm, 8pin M12 aviation plug, +IO-Link (Condition monitoring and configuration), position measurement, 4...20mA (forward), single magnet.

PARTS SELECTION

TECHNOLOGY PERCEIVES THE FUTURE

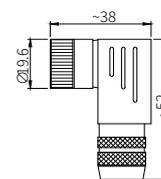
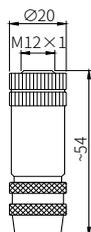


Name	Suspension magnet 31x20	Suspension magnet 38x25
Operating temperature	-40...105°C	
Order code	12-1010	12-1009



Width: 15mm

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



Name	8 pin M12 female connector	8 pin M12 female connector (90 degree angle)
End view drawing		
Material	Galvanized nickel	
Fitting diameter	8...10mm	6...8mm
Connection	Threaded	
Order code	18-5004	18-5005

Building 6, Dazu Enterprise Bay,
8th yard of Liangshuihe 2nd street, BDA P.R.China

Tel: +86 10-67948976 67948916
Fax: +86 10-67948979
Technical support: +86 (0)13370126657

Beijing Tebeifu Electronic Technology Co., Ltd.

www.tbfsensor.com

