

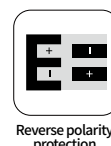
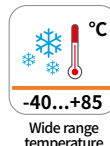
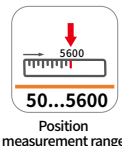


GL2 - EtherCAT

GL2-Series Data Sheet

Ethernet header	Ethernet Data				FCS
	EtherCAT header				
14Byte	11bit	1bit	4bit	44*-1498Byte	4bit
Ethernet header	Length	Res.	Type	1...n Datagrams	FCS

- + Easily installed: integrated design, no protruding electronics housing
- + Linear measurement, absolute value output
- + Easy to use: standard signal output, maintenance free
- + Resolution highest up to 2µm
- + Widely applied in forging, building materials, rubber and plastic machinery and other fields

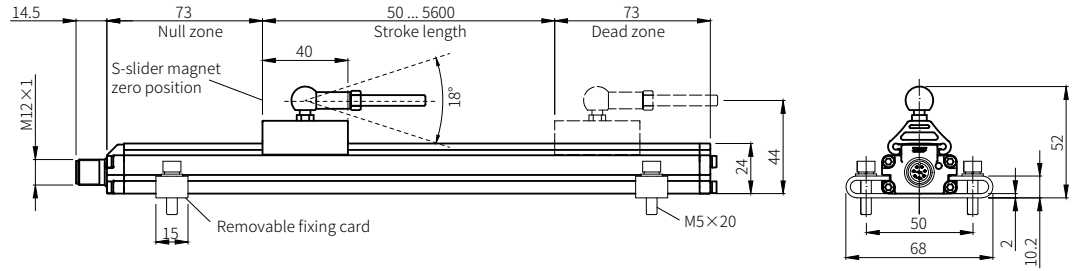


Input	Measured data	Position
	Measurement range	50mm...5600mm
Output	Interface	EtherCAT
	Data protocol	EtherCAT 100 Base-Tx, high speed Ethernet
	Transmission	Max. 100Mbit/s
Resolution	Resolution	2...1000 μ m optional
	None-Linearity	< $\pm 0.02\%$ F.S. (min. $\pm 50\mu$ m)
	Repeatability	< $\pm 0.005\%$ F.S. (min. $\pm 20\mu$ m)
	Temperature coefficient	< 30ppm/ $^{\circ}$ 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	+24VDC(-15/+20%)
	Polarity protection	Up to -36VDC
	Overvoltage protection	Up to +36VDC
	Power consumption	< 120mA (varies with range size)
	Dielectric strength	500 VDC (DC ground to machine ground)
Operating conditions	Magnet velocity	Slider magnet ≤ 10 m/s; suspension magnet, any.
	Operating temperature	-40...85 $^{\circ}$ C
	Humidity	90 % relative humidity, no 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

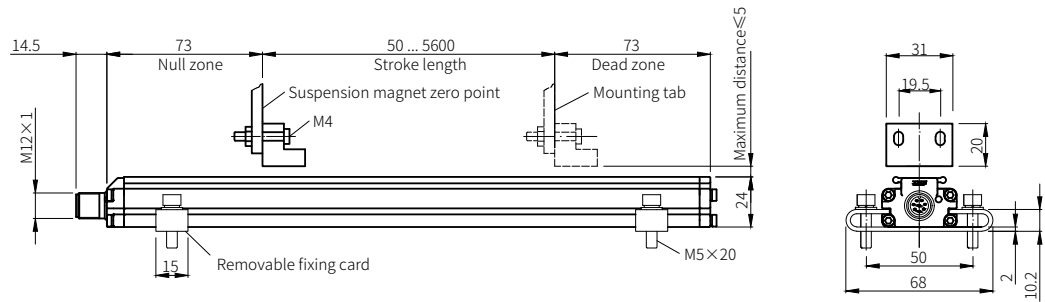
8 pin M12 connector

GL2- _____ - **D812**- _____

S-slider magnet



Suspension magnet



FUNCTION

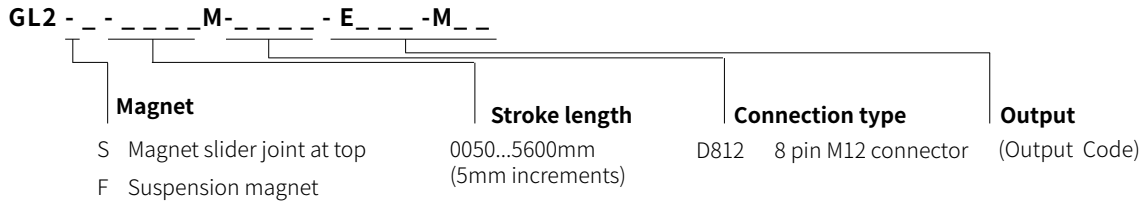
PIN-male	1	2	3	4	5	6	7	8
Function	TX+	RX+	TX-	RX-	24VDC -15/+20%	0 V (GND)	NC	NC



View on sensor

ORDER CODE

TECHNOLOGY PERCEIVES THE FUTURE



EtherCAT Output Code E [1] [2] [3]- M [4] [5]

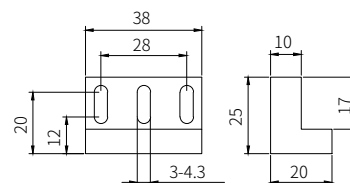
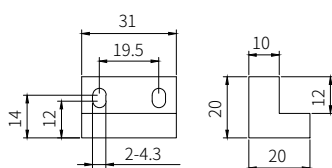
[1] [2] [3] Output	[4][5] Magnet number
101 Position, update in high speed, 1-5 magnet	01 one magnet
102 Position, 1-20 magnet	02 two magnets
103 Position and velocity, update in high speed, 1-5 magnet, linear correction optional	
105 Position and velocity, 1-20 magnet, linear correction optional	

Model selection | Model: GL2-F-0600M-D812-E101-M01

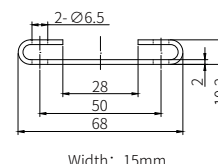
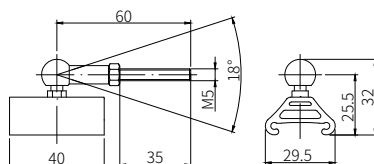
Explanation: GL2 type II generation, suspension magnet, stroke length 600mm, 8pin M12 aviation plug, EtherCAT Output ,position, update in high speed, one magnet.

PARTS SELECTION

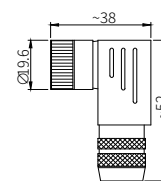
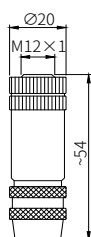
TECHNOLOGY PERCEIVES THE FUTURE



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



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

