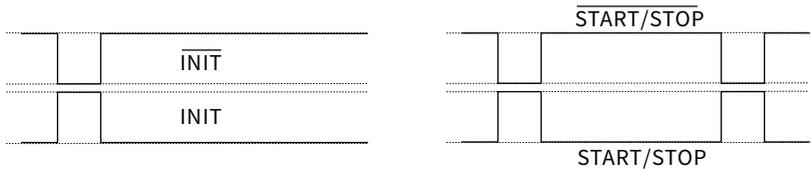




# GL2-Start/Stop

## GL2-Series Data Sheet



- + Updated new generation: stronger performance
- + Easily installed: integrated design, no protruding electronics housing
- + Start/Stop Digital pulse output
- + Widely applicated in forging, building materials, rubber and plastic machinery and other fields



 <b>IP 67</b> High protection level	 <b>50...5600</b> Position measurement range	 <b>-40...+85</b> Wide range temperature
 Double anti-interference	 High performance chip	 Reverse polarity protection
		 Shock/vibration resistant

<b>Input</b>	Measured data	Position
	Measurement range	50mm...5600mm
<b>Output</b>	Digital	Start/Stop pulse, DPI/IP mode supportive
<b>Resolution</b>	Resolution	Depends on controller
	None-Linearity	$< \pm 0.02\% \text{F.S. (min. } \pm 50\mu\text{m)}$
	Repeatability	$< \pm 0.005\% \text{F.S. (min. } \pm 20\mu\text{m)}$
	Update time	Depends on controller
	Temperature coefficient	$< 30\text{ppm}/^\circ\text{C}$
<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	Aviation plug
	Operating voltage	+24VDC(-15/+20%)
	Polarity protection	Up to -36VDC
	Overvoltage protection	Up to +36VDC
	Power consumption	$< 80\text{mA}$ (varies with range size)
	Dielectric strength	500 VDC (DC ground to machine ground)
<b>Operating conditions</b>	Magnet velocity	Slider magnet $\leq 10\text{m/s}$ ; suspension magnet, any.
	Operating temperature	$-40\dots 85^\circ\text{C}$
	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

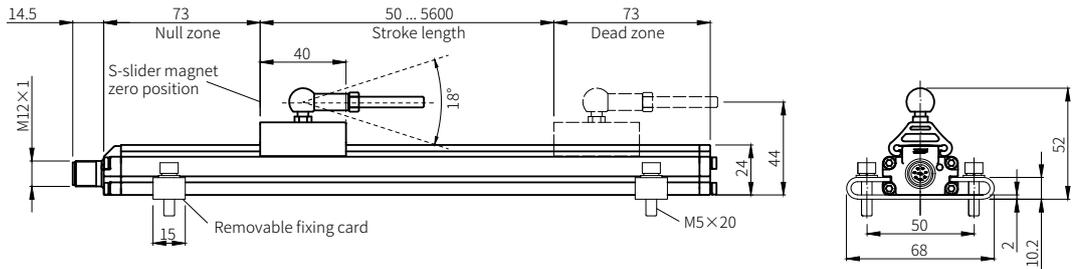
CATEGORY

PARAMETER

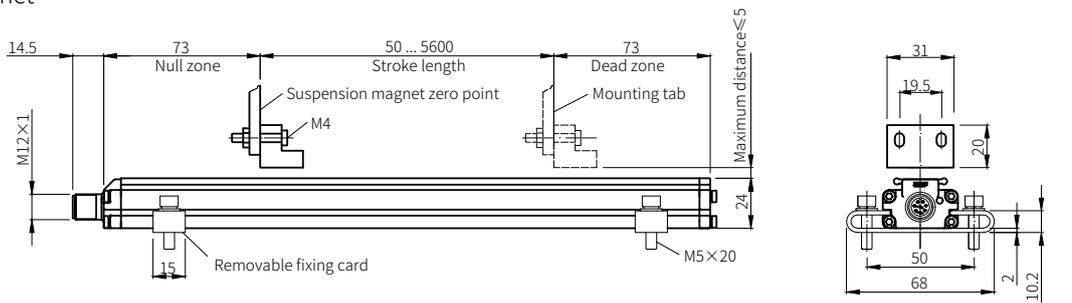
**8 pin M12 connector**

GL2- \_\_\_\_ - **D812**- \_\_\_\_

**S-slider magnet**



**Suspension magnet**



**FUNCTION**

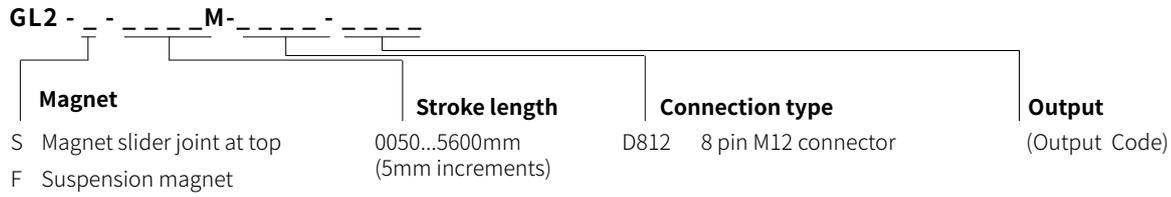
PIN-Male	1	2	3	4	5	6	7	8
Function	Init+	Start/Stop+	Init-	NC	Start/Stop-	0VDC (GND)	24VDC -15/+20%	NC



View on sensor

**ORDER CODE**

TECHNOLOGY PERCEIVES THE FUTURE



Start/Stop Output Code	[1][2]-[3][4]						
	<table border="1"> <thead> <tr> <th>[1][2] Output</th> <th>[3][4] Magnet</th> </tr> </thead> <tbody> <tr> <td>SS DPI mode only</td> <td>01 one magnet</td> </tr> <tr> <td>SD DPI/IP mode</td> <td>02 two magnets</td> </tr> </tbody> </table>	[1][2] Output	[3][4] Magnet	SS DPI mode only	01 one magnet	SD DPI/IP mode	02 two magnets
[1][2] Output	[3][4] Magnet						
SS DPI mode only	01 one magnet						
SD DPI/IP mode	02 two magnets						

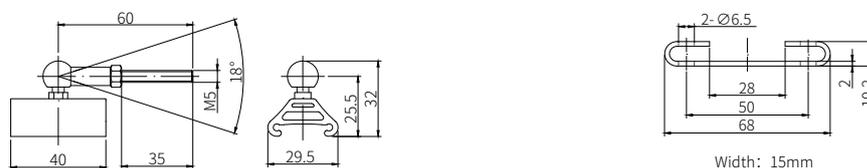
Model selection	Model: GL2-F-0600M-D812-SS-01
	Explanation: GL2 type II generation, suspension magnet, stroke length 600mm, 8pin M12 aviation plug, Start/Stop output, DPI mode only, single magnet.

**PARTS SELECTION**

TECHNOLOGY PERCEIVES THE FUTURE



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>



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	
<b>Order code</b>	<b>18-5004</b>	<b>18-5005</b>

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](http://www.tbfsensor.com)

