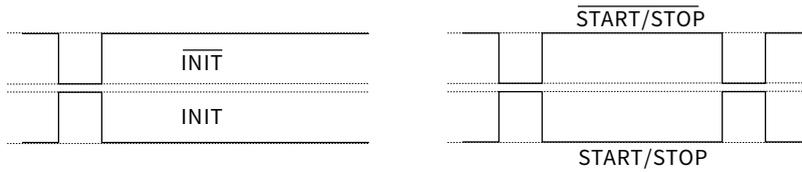


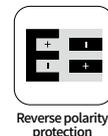
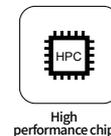
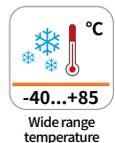
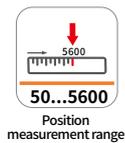


GP2-Start/Stop

GP2-Series Data Sheet



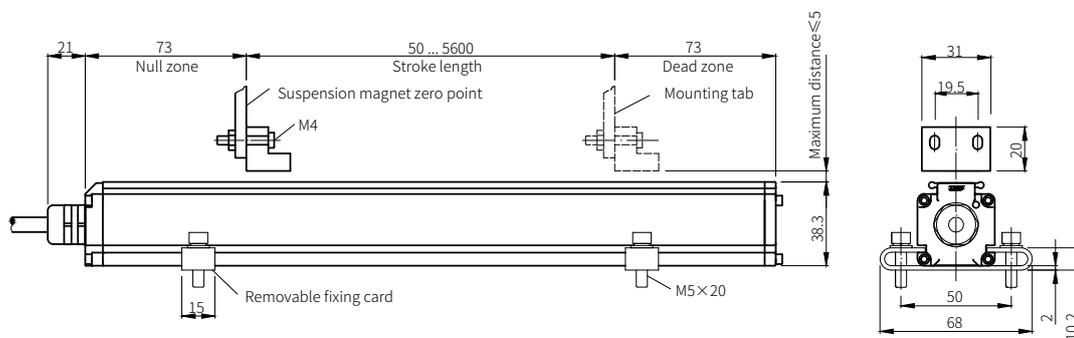
- + Updated new generation: stronger performance
- + Easily installed: integrated design, no protruding electronics housing
- + Start/Stop Digital pulse output
- + Widely applied in forging, building materials, rubber and plastic machinery and other fields



Input	Measured data	Position
	Measurement range	50mm...5600mm
Output	Digital	Start/Stop pulse, DPI/IP mode supportive
Resolution	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	$< 30\text{ppm}/^\circ\text{C}$
Mounting	Mounting position	Any
	Fixation	Removable fixing card
Design/ Material	Sensor cap	Aluminum alloy/Zinc alloy
	Sensor profile	Aluminum alloy
Electrical connection	Wiring connection	Straight out cable or 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)
Operating conditions	Magnet velocity	Slider magnet $\leq 10\text{m/s}$; suspension magnet, any.
	Operating temperature	-40...85°C
	Humidity	90 % relative humidity, no condensation
	Ingress protection	IP67 (when connector is fitted)/IP68 (straight out cable)
	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

Straight out cable

GP2- ____ - **RP** - ____
 GP2- ____ - **RT** - ____

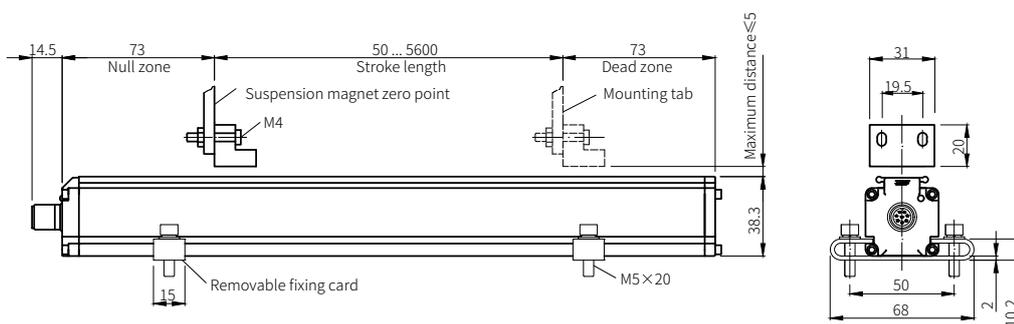


FUNCTION

Color	● Brown	○ White	● Yellow	● Green	● Gray*	● Pink*
Function	24VDC -15/+20%	0 VDC(GND)	Init+	Init-	Start/Stop-	Start/Stop+

8 pin M12 connector

GP2- ____ - **D812**- ____



FUNCTION

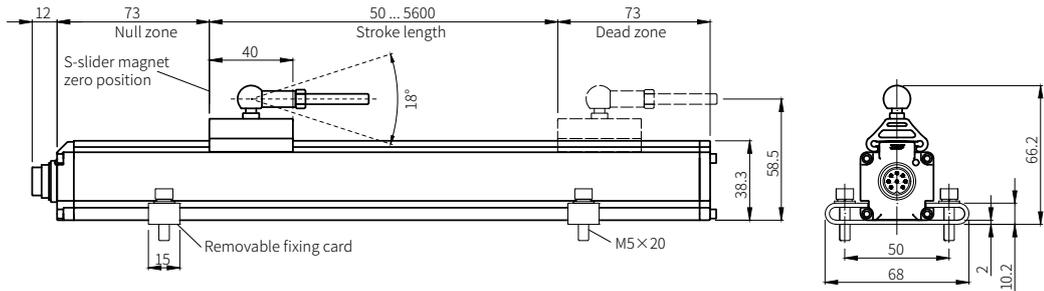
PIN-Male	1	2	3	4	5	6	7	8
Function	Init+	Start/Stop+	Init-	NC	Start/Stop-	0VDC (GND)	24VDC -15/+20%	NC



View on sensor

8 pin M16 connector

GP2- _____ - **D816**- _____



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

GP2 - - - - M- - - -

Magnet	Stroke length	Connection type	Output (Output Code)
S Magnet slider joint at top	0050...5600mm (5mm increments)	RP__ Straight out __m high performance cable	
F Suspension magnet		RT__ Straight out __m high temperature cable (Fill in zero if less than 2 places)	
		D812 8 pin M12 connector	
		D816 8 pin M16 connector	

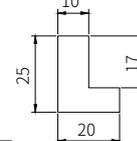
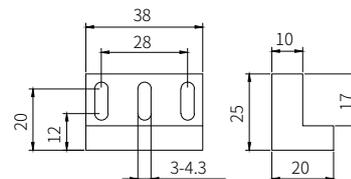
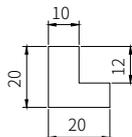
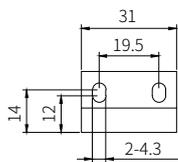
Start/Stop Output Code	[1][2]-[3][4]
	[1][2] Output [3][4]Magnet
	SS DPI mode only 01 one magnet
	SD DPI/IP mode 02 two magnets

Model selection | Model: GP2-F-0600M-D812-SS-01

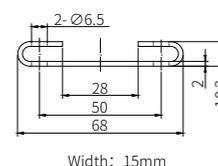
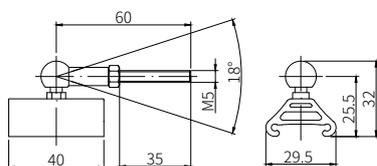
Explanation: GP2 type II generation, Suspension magnet, stroke length 600mm, 8pin M12 aviation plug, Start/Stop output, DPI mode only, single magnet.

PARTS SELECTION

TECHNOLOGY PERCEIVES THE FUTURE

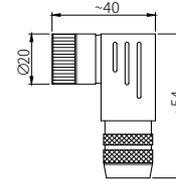
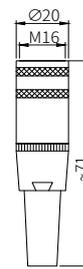
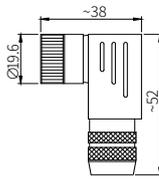
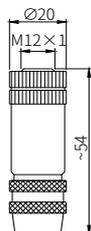


Name	Suspension magnet 31x20	Suspension magnet 38x25
Operating temperature	-40...105°C	
Order code	12-1010	12-1009



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)	8 pin M16 female connector	8 pin M16 female connector (90 degree angle)
End view drawing				
Material	Galvanized nickel			
Fitting diameter	8...10mm	6...8mm	6...9mm	6...8mm
Connection	Threaded		Welding	
Order code	18-5004	18-5005	18-5002	18-5003

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