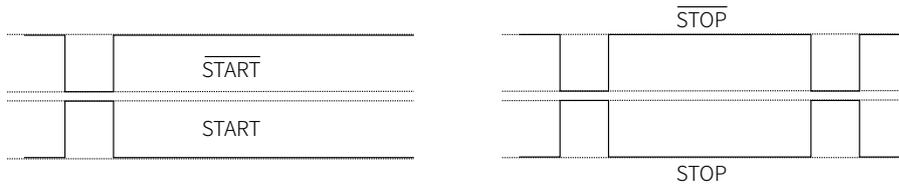




# GB-Start/Stop

GB-Series

Data Sheet



- + Compact structure: flat structure design, flange mounting, suitable for use inside U-shaped and other space-limited hydraulic cylinder
- + Durust: fully enclosed design with maximum IP68 protection
- + Easy to use, standard signal output, maintenance-free
- + Start/Stop digital pulse output
- + Non-contact measurement, no attrition



<b>Input</b>	Measured data	Position
	Measurement range	50...4500mm
<b>Output</b>	Digital	Start/Stop pulse
<b>Resolution</b>	Resolution	Depends on controller
	None-Linearity	< $\pm 0.02\%$ F.S. (min. $\pm 50\mu\text{m}$ )
	Repeatability	< $\pm 0.005\%$ F.S. (min. $\pm 20\mu\text{m}$ )
	Update time	Depends on controller
	Temperature coefficient	<30ppm/°C
<b>Mounting</b>	Mounting position	Any
	Mounting	Tight sealed flange $\Phi 18\text{h}6$ , 6 screw mounting holes
<b>Design/ Material</b>	Electronics housing	Stainless steel 304
	Measuring rod	Stainless steel 304/316L
	Operating pressure ratings	35MPa (continuous) ,70MPa (peak)
<b>Electrical connection</b>	Wiring connection	Straight out cable or 8 pin M16 aviation plug
	Operating voltage	+24VDC(-15/+20%)
	Polarity protection	Up to -36VDC
	Overvoltage protection	Up to +36VDC
	Power consumption	< 80mA (varies with range size)
	Dielectric strength	500 VDC (DC ground to machine ground)
<b>Operating conditions</b>	Magnet velocity	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

GB- \_\_\_\_ - **RP** \_\_\_\_ - \_\_\_\_

GB- \_\_\_\_ - **RT** \_\_\_\_ - \_\_\_\_

### Straight out cable

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

GB- \_\_\_\_ - **D80P** \_\_\_\_ - \_\_\_\_

GB- \_\_\_\_ - **D80T** \_\_\_\_ - \_\_\_\_

### 8 pin M16 connector

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

View on sensor

**ORDER CODE**

TECHNOLOGY PERCEIVES THE FUTURE

**GB** - - - - **M** - - - -

<b>Mounting</b>		<b>Stroke length</b>	<b>Connection type</b>		<b>Output</b> (Output Code)
F	Tight seal mounting Φ18h6	0050...4500mm (5mm increments)	RP/T__	Straight out __m high performance /high temperature cable	
R	Tight seal mounting Φ18h6, with M4x6 thread at tail end		DP/T__	8 pin M16 connector, with __ m high performance /high temperature cable	

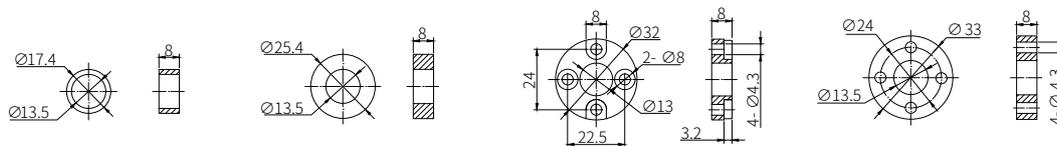
(If the cable length is less than two digits, add zeros in front.)  
 (If the avatation plug does not require a cable, please write DP00)

<b>Start/Stop Output Code</b>	[1][2][3][4]
[1][2] Output	[3][4]Magnet
SS DPI mode only	01 one magnet

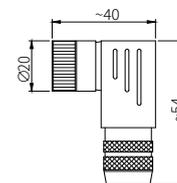
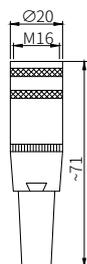
<b>Model selection</b>	Model: GB-F-0800M-RP05-SS01
	Explanation: GB series pressure resistance outer tube type, tight sealed flange 18h6, stroke length 800mm, straight out 5m high performance cable,Start/Stop output, DPI mode only, single magnet.

**PARTS SELECTION**

TECHNOLOGY PERCEIVES THE FUTURE



Name	Ring magnet	Ring magnet	Ring magnet	Ring magnet
Operating temperature	-40...125°C			
<b>Order code</b>	<b>12-1032</b>	<b>12-1019</b>	<b>12-1024</b>	<b>12-1001</b>
Fitting non-permeable gasket				
Name	Non-permeable gasket	Non-permeable gasket	Non-permeable gasket	Non-permeable gasket
Operating temperature	-40...125°C			
<b>Order code</b>	<b>12-1037</b>	<b>12-1021</b>	<b>12-1025</b>	<b>12-1008</b>



Name	8 pin M16 female connector	8 pin M16 female connector (90 degree angle)
End view drawing		
Material		
Fitting diameter	6...9mm	6...8mm
Connection	Welding	
<b>Order code</b>	<b>18-5002</b>	<b>18-5003</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)

