

Analog Output

Analog output: 4-20mA/0-10V



Analog Output

GB series products with electronic head size 34 mm, suitable for U-shaped hydraulic cylinder installation, compact structure, strong anti-interference ability, fully sealed design for oil fouling resistant and waterproof, is widely used in engineering machinery, power machinery.

Features

- Rugged and reliable, oil fouling resistant
- Non-contact sensing technology
- No zero, absolute displacement output
- Modular design, replaced by convenience
- Easy to diagnosis, LED lamp real-time display
- Low power design, reduce the heat

Parameters Specifications

INPUT

Measured variables: Displacement
 Measured range: 50mm-2000mm
 Measured points: 1

OUTPUT

Voltage: 0 to 10Vdc (**Load resistance:** >5kΩ)
 Current: 4 to 20mA (**Load resistance:** ≤500Ω at 24 Vdc power supply)

ACCURACY

Non-linearity : <±0.02% full stroke(Min.60um).
 Repeatability: <±0.001% of full stroke.(or equal to Resolution)
 Updated time: >1.5KHz
 Resolution: 16 bit D/A(min.1um)

Operation conditions

Magnet speed: Any
 Operating Temperature: -40°C to +85°C
 Storage Temperature: -40°C to +85°C
 Relative humidity: 90% no condensation
 Electronic protection: IP67 for Aviation connector
 IP68 for waterproof connector
 Pressure rating: PN: 35Mpa , Pmax: 70Mpa

Electronic connection

Wiring type: Waterproof connector or 6 pin Aviation connector
 Operating voltage: 24Vdc(-15/+20%)
 Polarity protection: up to -30Vdc
 Overvoltage protection: up to 36Vdc
 Temperature coefficient: <30ppm°C

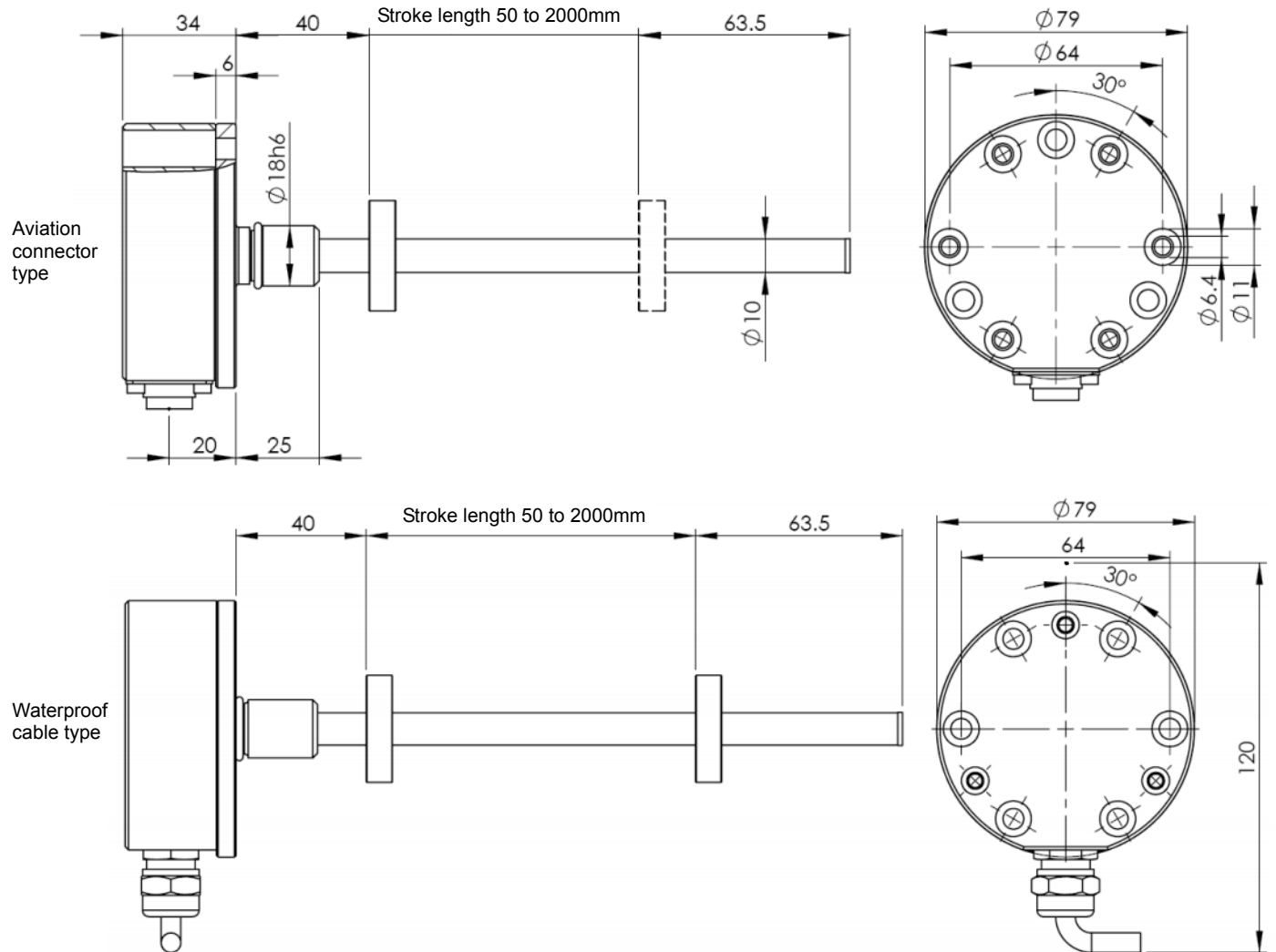
Mounting and attachment

Mounting type: 6 pieces of M6x16 flange pressure seal
 Mechanical assembly: O-sealing ring 15.3x2.2 mm, FPM75,
 Magnet type: Ring magnet OD33, OD25.4, OD17.4

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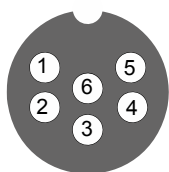
Model GB sensor dimension reference

Model GB Sensor: Drawing is for reference only, contact applications engineering for tolerance specific information



Note: Sensor head with flange installation, 6 pieces of M6x16xA2-70(ISO4762) screw through the head mounting on the end surface

Electronic wiring



Male connector
(Face to sensor
head)

Pin	Color	Description
1	Gray	Output Signal(0-20mA, 0-10V)
2	Pink	Output(GND)
3	Yellow	(+) Communication interface
4	Green	(-) Communication interface
5	Brown	(+) Power +24Vdc(-15/+20%)
6	White	(GND) Power

Standard magnet selections

SELECTION OF POSITION MAGNETS

A choice of three magnets are available with the Model GB series sensor. Magnets must be ordered separately with Model GB position sensors. The Magnet with holes for fixing is suitable for most applications.

MAGNET MAGNET(OD33)

with holes(Ø4.3) for fixing



Material: Ferrite PA
O.D.: 33mm(1.3 in.)
I.D.: 13.5mm(0.53in.)
Thickness: 8mm(0.31in.)

RING MAGNET(OD25.4)



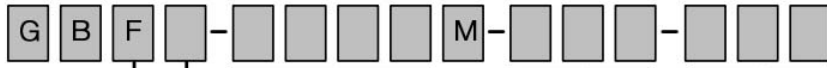
Material: Ferrite PA
O.D.: 25.4mm(1 in.)
I.D.: 13.5mm(0.53in.)
Thickness: 8mm(0.31in.)

RING MAGNET(OD17.4)



Material: Ferrite PA
O.D.: 17.4mm(0.68 in.)
I.D.: 13.5mm(0.53in.)
Thickness: 10.5mm(0.41in.)

Ordering Information



MOUNTING SCREW

F = Pressure seal Ø18h6

DEAD ZONE(HOME/END)

S = 40mm/60mm

STROKE LENGHT

0050 to 2000 mm in 5mm step

CONNECT TYPE

Aviation connector

D60 = 6 pin analog output connector

D70 = 7 pin SSI output connector

Waterproof cable: (unit m)

S__ = standard cable + cable length

T__ = high temperature cable + cable length

OUTPUT

A10 = Current 4-20mA

A11 = Current 20-4mA

V10 = Voltage 0-10V

V11 = Voltage 10-0V