

GYcAT *Magnetostrictive linear sensor 15-3500mm*



The GY-series from Regal Components offer sensors that meet the highest demands on the market from one of the leading suppliers in Japan. Decades of experience ensures you highest quality. The GY-series are designed for mount in hydraulic and pneumatic cylinders but can also be used in other applications such as liquid level detection.

The magnetostrictive principle, non-contact, offers very high performance and linearity combined with extreme long lifetime.

The GYcAT-series offer you strokes up to 3500 mm with voltage or current signal proportional to the magnet position.

The length of the cable should be less than 10m when using the voltage output and less than 100m when using the current output.

Other magnets are available please see GY-magnets or GY-floats for more information.

Regal offers you the best available support and knowledge in position sensing, with more than 20 years of experience.

- Non-contact technology
- Good accuracy
- Good linearity

SPECIFICATIONS

Power supply	21-26 VDC (100mA)
Output	
Voltage output	0-10 V / 10-0 V
Current output	4-20 mA / 4-20 mA
Alarm	Open collector 30 V, 0.1 A
Non-linearity	≤ ±0.05% FS*
Resolution	≤ ±0.01% FS*
Repeatability	≤ 0.01% FS*
Temp. Drift	
Sensor	≤ ±40 ppm FS/°C
Sampling frequency	1 kHz
Stroke	15-3500 mm
Temperature	
Operating temp.	-20°C...+80°C
Storage temp.	-40°C...+80°C
Material	
Probe head	Aluminum
Probe rod	Stainless steel SS304
Vibrations	6G (40Hz 2mmPP)
Shock	50G (2ms)
IP grade	IP67
Working pressure	350 bar
Protection against polarity inversion	Yes
* Applies to sensors with an effective stroke of 300 mm or more.	

ORDER INFORMATION

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1 2 3 4 5 6 7

1 Stroke (15-3500 mm)

2 Thread dead zone

S: 50 mm (std)

3 Tread dead zone

S: 70 mm/90 mm/100 mm (std),
Depends on the magnet

4 Thread / Rod diameter

M: M24xP1.0, Ø 10 mm (std)
N: M18xP1.5, Ø 10 mm
U: 3/4-16UNF-3A, Ø 10 mm
M8: M24xP1.0, Ø 8 mm
N8: M18xP1.5, Ø 8 mm
U8: 3/4-16UNF-3A, Ø 8 mm
M14: M24xP1.0, Ø 13.8 mm

5 Magnets

M2P: No.2P (std)
Please see GY-magnets for more options, group B

6 Cable connection

CN: Connector M12 (std)
GnF: Cable (n=length in meter)
GnA: Cable with connector (n=length in meter)
Waterproof version available, IP68

7 Position output, when magnet moves toward tip

AD: 0-10 V
AR: 10-0 V
BD: 4-20 mA (std)
BR: 20-4 mA

Other alternatives available. Please contact Regal Components for more information.

2016-04-22, specifications subject to change without notice

ISO 9001
BUREAU VERITAS
Certification

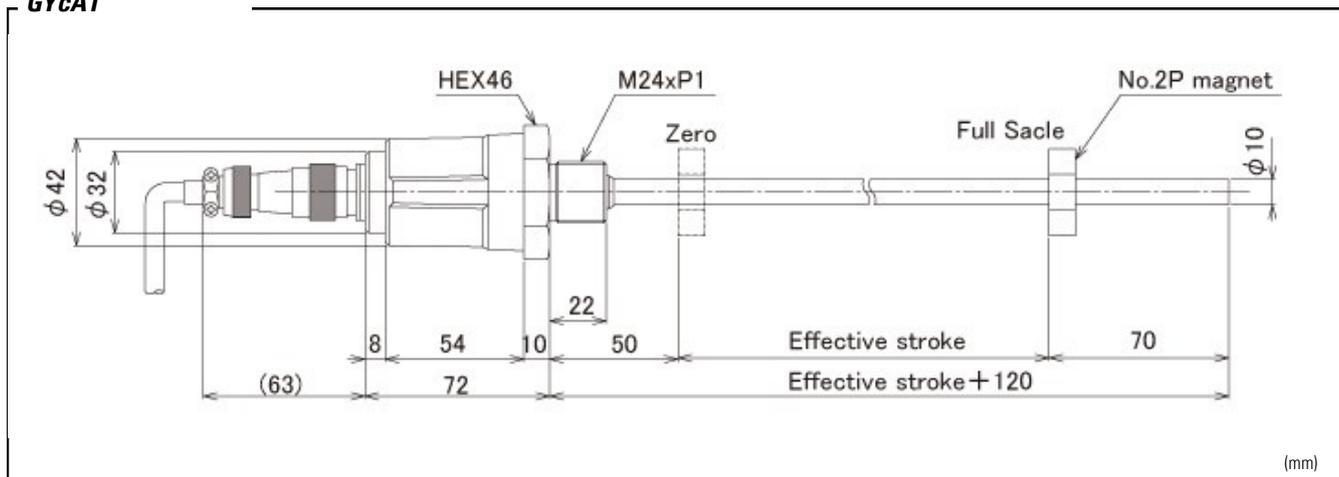


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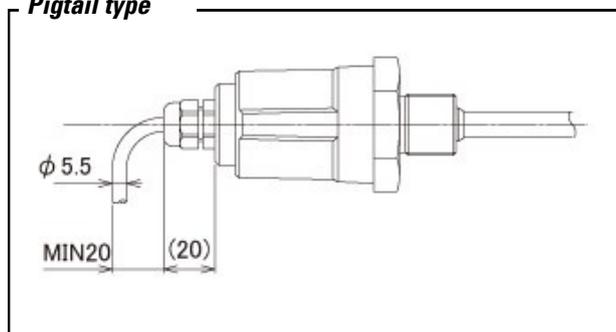
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GYcAT



(mm)

Pigtail type

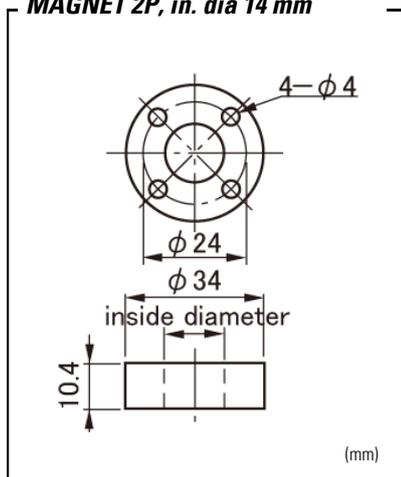


CONNECTION

Pin	Cable color	GYcAT
1	Red	+24 VDC
2	Shield	Shield
3	White	0 V
4	Green	SIG COM
5	Black	Voltage signal
6	Blue	Current signal
7	Brown	Alarm signal
-	Yellow	N.C

Shield should be connected with 0V at user side.

MAGNET 2P, in. dia 14 mm



(mm)

EXAMPLE OTHER MAGNETS



Contact us for more information

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