

GYcAT4 *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 GYcAT4 sensor is easy to mount and install in cylinders. It offer you strokes as long as 3500 mm and current or voltage output. Regal Components offers you the best available support and knowledge in position sensing, with more than 20 years of experience.

GYcAT4 is the replacement model for GYLt.

- Non-contact technology
- Good lifetime

CONNECTION

Pin	GYcAT4	Pigtail	Regals M12 kabel
1	+24 VDC	Red	Brown
2	0 V	White	White
3	Output	Black	Blue
4	COM	Green	Black

Shield connected to 0 V at user side.

SPECIFICATIONS

Power supply	24 VDC ±2 (100mA)
Output	
Voltage output	0-10 V / 10-0 V
Current output	4-20 mA / 20-4 mA
Non-linearity	< ±0.05% FS*
Resolution	< ±0.01% FS*
Repeatability	< 0.01% FS*
Temp. Drift	
Sensor	< ±40 ppm FS/°C
Sampling frequence	Std 1 kHz (upp till 1000mm)
Stroke	15-3500 mm
Temperature	
Operating temp.	-20°C...+80°C
Storage temp.	-40°C...+80°C
Material	
Probe head	Aluminium
Probe rod	Stainless steel SS304
Vibrations	6G
Shock	50G (2ms)
IP grade	IP67
Working pressure	350 bar

* Applies to sensors with an effective stroke of 300 mm or more.

ORDER INFORMATION

GYcAT4 - □□□□ - □/□ - □□ - □ - □ - □

1 2 3 4 5 6 7

1 Effective stroke (15-3500mm)

2 Thread dead zone

S: 50 mm (std)

3 Tip 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 Magnet

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)

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.

2015-09-10, specifications subject to change without notice

ISO 9001
BUREAU VERITAS
Certification



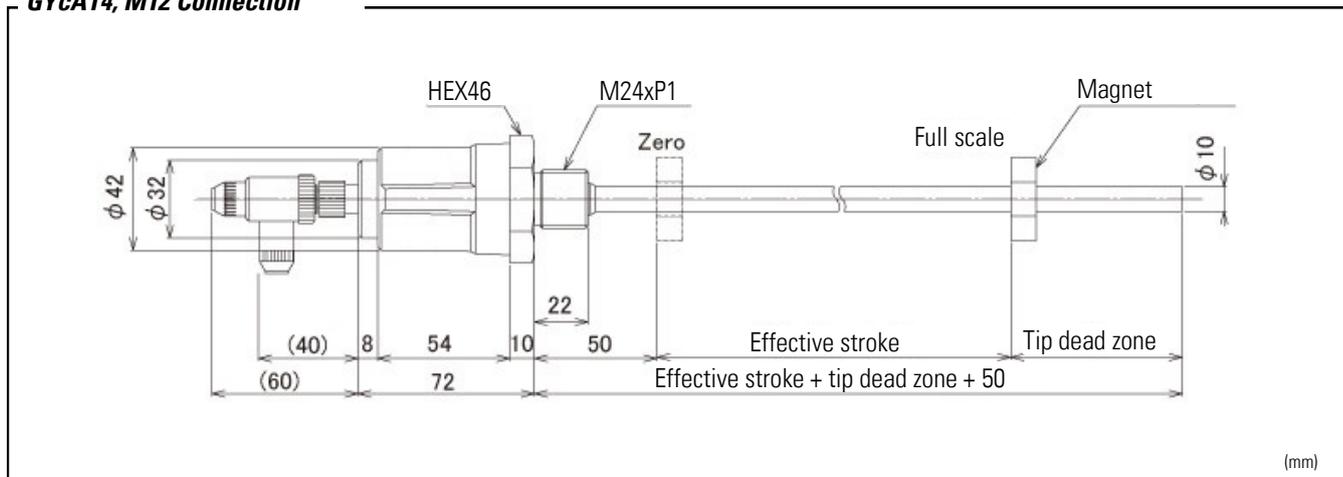
REGAL COMPONENTS AB • LEFFLERSGATAN 1 • SE-754 50 UPPSALA • SWEDEN
+46 (0)18-65 70 00 • WWW.REGAL.SE • INFO@REGAL.SE

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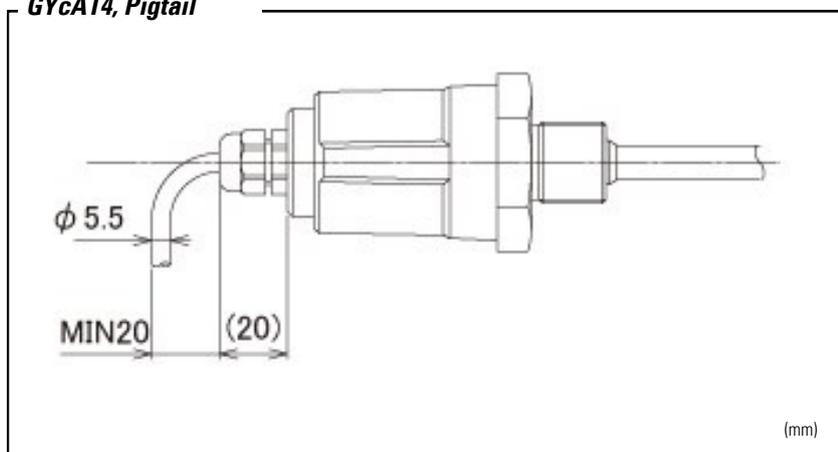
GYcAT4

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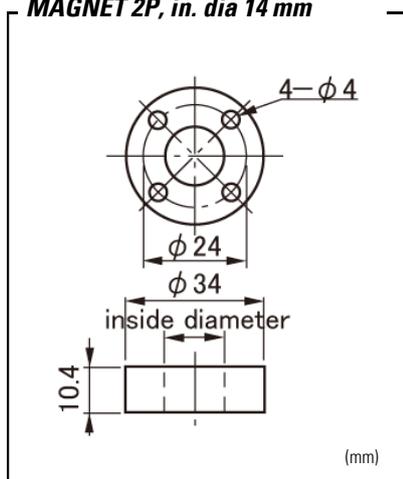
GYcAT4, M12 Connection



GYcAT4, Pigtail



MAGNET 2P, in. dia 14 mm



EXAMPLE OTHER MAGNETS



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