

GYcRS *Magnetostrictive linear sensor 15-7500mm*



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 GYcRS sensor gives a digital output (start/stop). This simple interface enables to design users own controller easier. The pulses are transmitted using RS-422 differential line drivers of which advantage is the noise free transmission with a simple interface.

Three electronic boxes are available, please see next page. Datasheet of the electronic boxes will soon be available.

CONNECTION

Pin	GYcRS
1	24 VDC
2	NC
3	0 V
4	+ Interrogation
5	+ Stop
6	- Interrogation
7	- Stop

Shield should be connected with 0 V at user side.

- High performance
- Min. 1 μ m resolution
- Non-contact technology
- Robust against electrical noise

SPECIFIKATIONER

Power supply	24 VDC \pm 2
Output	RS 422 Start/Stop
Non-linearity	\pm 0.025% FS*
Resolution	
Analog	16 bit (with GYHC)*
Digital	Min. 1 μ m (with GYDC-05)*
Repeatability	< \pm 0.01%FS*
Temp. Drift	< \pm 20ppmFS/ $^{\circ}$ C
Stroke	15-7500 mm
Temperature	
Operating temp.	-20 $^{\circ}$ C...+75 $^{\circ}$ C
Storage temp.	-40 $^{\circ}$ C...+75 $^{\circ}$ C
Material	
Probe head	Aluminum
Probe rod	Stainless steel SS304
Vibrations	15G (40Hz 2mmPP)
Shock	100G (2 ms)
IP grade	IP67
Working pressure	350 bar

* Gäller för givare med ett aktivt slag av 300 mm eller mer.

ORDER INFORMATION

GYcRS - □□□□-□/□-□-□-□-□
1 2 3 4 5 6 7

1 Effective stroke (15-7500 mm)

2 Thread dead zone

S: 50 mm (std)

3 Thread dead zone

S: 70 mm/90 mm/100 mm (std),

Depends on the magnet

4 Thread / Rod diameter

M: M24x1.0, \varnothing 10 mm (std)

N: M18x1.5, \varnothing 10 mm

U: 3/4-16UNF, \varnothing 10 mm

M8: M24xP1.0, \varnothing 8 mm

N8: M18xP1.5, \varnothing 8 mm

U8: 3/4-16UNF-3A, \varnothing 8 mm

M14: M24xP1.0, \varnothing 13.8 mm

5 Magnet

M2P: No.2P (std)

Please see GY-magnets for more options, group GG

6 Cable connection

CN: 7-polig kontakt (std)

GnF: Kabel (n=längd i m)

GnA: Kabel med kontakt (n=längd i m)

7 Output

Depends on external controller

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

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

ISO 9001
BUREAU VERITAS
Certification

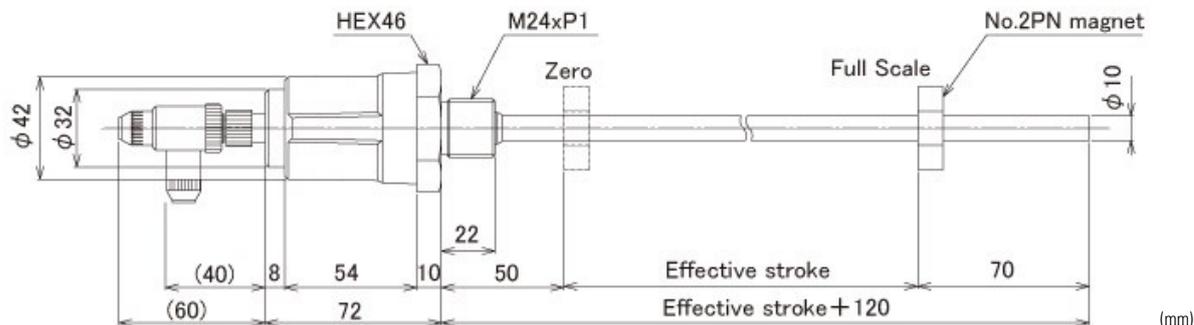


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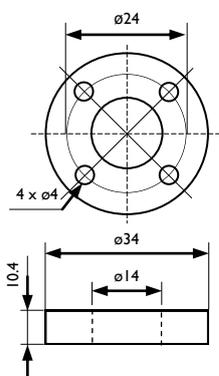
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GYcRS



MAGNET 2PN (std)



(mm)

GYcRS can be used with following electronics



GYHC (Analog)



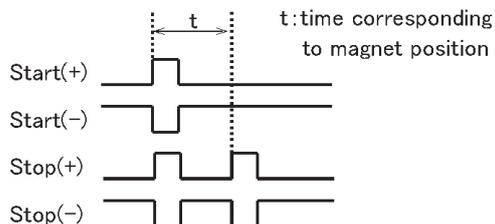
GYDC-05 (Digital)



GYFC2 (Analog)

Start / Stop interface

In case of using probe only, probe outputs digital signals (start/stop) using RS422 differential line drivers. In response to user's interrogation (start) pulse, probe provides stop pulse.



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