

GYPMR Probe

Compact head



GYPMR probe has been developed as the most compact head type. Applying to hydraulic cylinder, its total length becomes space saving.

Specifications

Accuracy	Non-linearity	$\leq \pm 0.025\%FS$ TYP
	Resolution	(analogue) $\leq 0.01\%FS$ (with GYHC) (digital) 0.1mm (with GYDC-05)
	Repeatability	$\leq \pm 0.01\%FS$
	Temp. drift	$\leq \pm 45ppmFS/^{\circ}C$
Environment	Max. Pressure	35MPa (probe rod)
	Operating temp.	$-20^{\circ}C \sim +80^{\circ}C$
	Storage temp.	$-40^{\circ}C \sim +80^{\circ}C$
	Vibration	6G (or 40Hz 2mmPP)
	Shock	20G (2msec)
	IP grade	IP67
Cable		Std 1.5m (Option Max.100m)

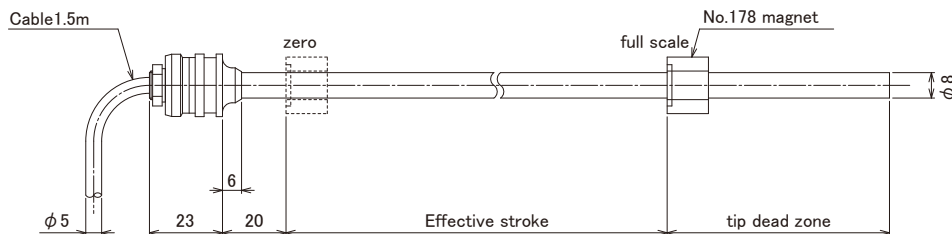
- The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.
- The specification of stroke less than 300mm is equal that of stroke 300mm.

◆ associated controller

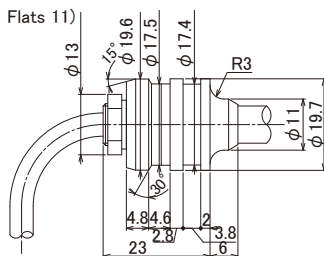
- analogue output: GYHC (page 50-51)
- digital output: GYDC-S1 (page 54-55), GYDC-05 (page 56-57)

Dimensions

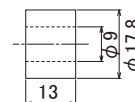
■ Probe



(Width Across Flats 11)



■ No.178 magnet (holder: Bs)



■ Cable (robot cable)

Cable color	Function
shield	shield
white	sensor signal
black	0V
red	sensor power

- shield should be connected to shield terminal of the controller.

- Material probe head: SS304, probe rod: SS304
- For magnet, standard is No.178.
- For others, select one from group GG on page 109.
- The tip dead zone length depends on the selected magnet.

■ Probe

GYPMR-□□□□-□/□-P8-□□-□□-00

①

②

③

④

⑤

⑥

⑦

① Effective stroke

20mm~2000mm

② Head dead zone

S: 20mm (STD)

□: □mm (option) (specified by customers)

• Possible Min. length depends on the selected magnet or float.

③ Tip dead zone

S: 70mm (STD)

• S (STD length) depends on the selected magnet in ⑤.

tip DZ	magnet
70mm	MG178, M2PN, M11N
100mm	T144, T163

□: □mm (option) (specified by customers)

• Possible Min. length depends on the selected magnet or float.

④ Mount/Rod diameter

P8 : O-ring, rod $\Phi 8$ (STD)

⑤ Associated magnet

<magnet>

MG178 : No.178 (STD)

M2PN : No.2PN ($\leq$ stroke 1000mm)

M11N : No.11N ($\leq$ stroke 1000mm)

T144 : No.T14-M4

T163 : No.T16-M3

• Please consult if you select a magnet of other than above.

• This Model code means only specifying associated magnet.

• When you need a magnet, please order separately.

⑥ Cable connection

G□F: pigtail / cable end : free

G□A: pigtail / cable end : with connector for relay

(□: cable length (m), Max.10m) (*)

(*) In case of using extension cable

sensor cable (m) + extension cable (m) $\leq$ 100m

• Please consider extension cable on page 111.

⑦ Output

00: depends on external controller

【Installation example】

