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

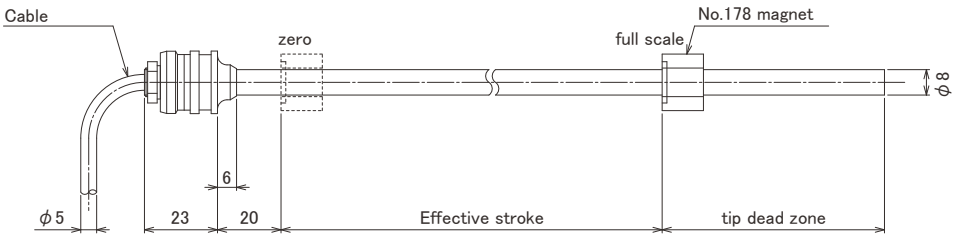
Accuracy	Non-linearity	≦±0.05%FS TYP
	Resolution	(analogue) ≦0.01%FS (digital) 0.1mm
	Repeatability	≦±0.01%FS
	Temp. drift	≦±45ppmFS/℃
Environment	Max. Pressure	35MPa (probe rod)
	Operating temp.	-20℃～+80℃
	Storage temp.	-40℃～+80℃
	Vibration	6G (or 40Hz 2mmPP)
	Shock	20G (2msec)
	IP grade	IP67

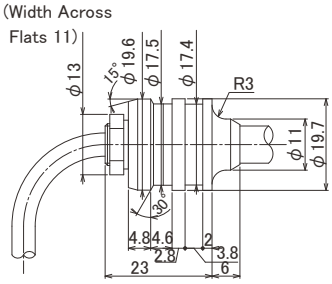
・The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.
・The specification of stroke less than 300mm is equal that of stroke 300mm.

◆associated controller
・analogue output : GYHC (page 52, 53)
・digital output : GYDC-S1 (page 56, 57), GYDC-05 (page 58, 59)

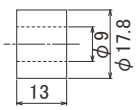
Dimensions

■Probe





■No.178 magnet (holder : Bs)



■Cable (robot cable)

Wire 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 110.
・The tip dead zone length depends on the selected magnet.

■Probe

GYPMR-□□□□-□/□-P8-□□-□□-00

① ② ③ ④ ⑤ ⑥ ⑦

①Effective stroke
15mm～2000mm

②Head dead zone
S：20mm（STD）
□：□mm（option）（specified by customers）

・Possible Min. length depends on the selected magnet.

③Tip 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.

④Mount/Rod diameter
P8　：O-ring, rod Φ8（STD）

⑤Associated magnet
＜magnet＞

MG178　：No.178（STD）
M2PN　：No.2PN（≦stroke 1000mm）
M11N　：No.11N（≦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.

⑥Cable 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) ≦ 100m
・Please consider extension cable on page 112.

⑦Output
00：depends on external controller

【Installation example】