

GYcAT4 Probe

Analogue

Noise
Cancel



Analogue output
(replacement model for GYLT, GYLS)



Replacement model for GYLS (0~10V) or GYLT (4~20mA).
The linearity is changed to 0.05%FS from 0.025%FS, so please be careful. GYcAT4 doesn't have alarm output. Please consider GYcAT (page 16~17) in a new inquiry. By the option, it is available with the high speed sampling, and high temperature (rod parts only).

Specifications

Accuracy	Non-linearity	$\leq \pm 0.05\%FS$ TYP
	Resolution	$\leq 0.01\%FS$
	Repeatability	$\leq \pm 0.01\%FS$
	Temp. drift	$\leq \pm 40ppmFS/^{\circ}C$
Output	Voltage output	0~10V or 10~0V (output current : Max.5mA, load : Min.2k Ω)
	Current output	4~20m or 20~4mA (load : Max.500 Ω)
	Alarm output	not available
Power supply		+24(± 2)VDC (100mA)
Sampling freq. (*)		Std 1kHz (total rod length : up to 1250mm)
Environment	Msx. Pressure	35MPa (probe rod)
	Operating temp.	-20 $^{\circ}C$ ~+80 $^{\circ}C$
	Storage temp.	-40 $^{\circ}C$ ~+80 $^{\circ}C$
	Vibration	6G (or 40Hz 2mmPP)
	Shock	50G (2msec)
IP grade		IP67 (10kPa, 30min)

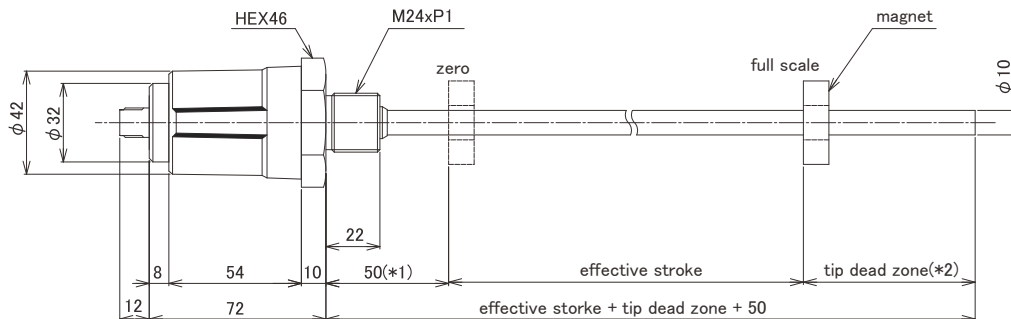
* The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.

* The specification of stroke less than 300mm is equal that of stroke 300mm.

(*) Sampling frequency : Max. 8kHz (It depends on the total rod length (shows in Model ⑧), and the consumption current increases.)

Dimensions

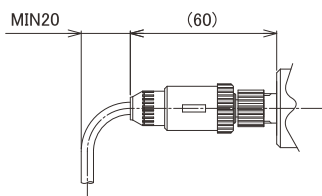
■ probe



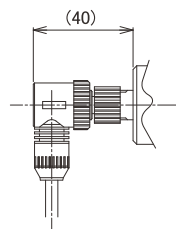
*1) In case of an effective stroke 2001mm or more, head dead zone is 100mm. (Model code ② : 100)

*2) In case of an effective stroke 3001mm or more, tip dead zone is "standard length + 30mm". (Model code ③ : 100/120/130)

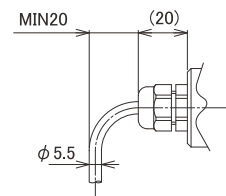
■ Connector type(straight)



■ Connector type(L-shaped)



■ Pigtail type



- Material probe head: Al diecast, probe rod: SS304
- Magnet : Select one from group GG on page 109 (in case of a new inquiry, select one from group B)
- The tip dead zone length depends on the selected magnet or float.
- Connector: Omron XS2C-D4S1 (straight type) or D4S2 (L type) (Material: PBT plastic)
- Applied cable diameter: $\phi 5 \sim \phi 6$, Wire size: 0.18~0.75mm²
- cable length : Max.10m (0~10V output), Max. 100m (4~20mA output)

■ Cable

Cable color	Pin number	Function
red	1	+24VDC
white	2	0V
black	3	OUT
green	4	COM

* Shield should be connected with 0V at user side.

