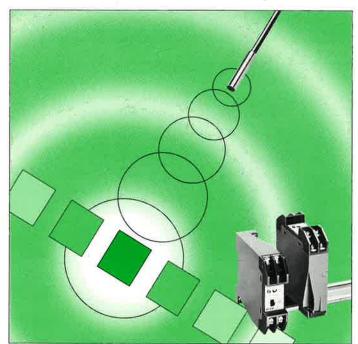
GS Series · · ·

Amplifier separated type featuring wide selection, sharp detection and small size.

- Multi-revolution sensitivity adjustor is equipped on all models, which facilitates to make the fine adjustment of the sensing distance.
- Highly resistive construction against ambient conditions conforming to IP 67.
 No oil, water and dust influence the excellent sensing performance.



PRODUCT LINE-UP

Model No.	Appearance (mm)	Metallic material	Sensing distance* (mm)	Control unit to be combined	
GS-3S	43.81 - 18.		(2) Optimum 0.8		
GS-58	05.41 18	Stainless	1 (3)	44	
GS-8S	08 18	-	2 (4)	4	
GS-8M	M8 18	-	(3.5)	•GA-2R RELAY OUTPUT Power source: 90 to 260V AC	
GS-10M	M101 18	Brass (Nickel plated)	2 (4)	Output: Relay contact •GA-2 NON-CONTACT	
GS-12M	M12 18		(6)	OUTPUT Power source: 90 to 260V AC	
GS-14M	M14 (18)	H7 1	to	Output: TRIAC GA-2D Power source:	
GS-14T	19 31	Stainless	5	10 to 28V DC Output: Open collector	

^{*}The sensing distance is the one obtained by using iron as an object. The correction coef, in table in the right have to be multiplied to know what are the sensing distance if materials other than iron are detected.

(Reference object: 18X18X1mm)

Stainless (SUS 304)	Approx. 0.8		
Brass	Approx. 0.6		
Aluminum	Approx. 0.4		
Copper	Арргох, 0.4		

SPECIFICATIONS

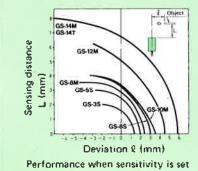
Sensing probe

ltems Models	Cylindrical		Threaded probe			Flat		
	GS-3S	G\$-5\$	GS-8S	GS-8M	GS-10M	GS-12M	GS-14M	GS-14T
Sensing distance	max. 2 mm	3 mm	4 mm	3.5 mm	4 mm	6 mm	8 r	nm
Response time	Depending on Amp. Unit							
Accuracy of repeated detection	2 µm	2.5 µm	5 µm	3 µm	5 μm			
Hyslerisis	Less than 50 µm			Less than	Less than 70 μm			
E al a a		Stair	nless		Bra	ss (Nickel-pla	ted)	Stainless
Enclosure	Conforming to IP-67 (IEC-144, JIS C0920)							
Cable	3 meters of high frequency coaxial cable (impedance 50 ohms)							
Ambient temperature/humidity	-10°C to +60°C / Less than 85% RH							
Accessories	Two nuts & one washer							

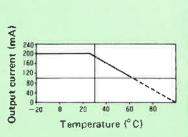
Control unit

Types &	AC Pow	DC Power source			
Items Models	GA-2R	GA-2	GA-2D		
Power source	90 to 260V A	10 to 28V DC			
Power consumption	Approx. 7 VA	Approx. 2.5 VA	Approx. 20 mA		
Output circuit (Output relay)	Relay contact 1A	Alternating current (TRIAC)	NPN open collector & PNP open collector		
Response time	Less tha	Less than 1 ms			
Power capacity	Resistive at 2A, 250V AC	2 to 200 mA, 260V AC	Less than 200 mA, 30V DC		
Operation mode	Near-on (NORM.) / Leave-on (INV.) selectable				
Operation indicator	Red LED glows when output an				
Excessive current protection	N	Yes			
Sensitivity adjuster	Mult	neter			
Ambient temperature / humidity	-10°C to +60°C / Less than 85% RH				
Enclosure	Enclosure: ABS resin, Terminal base: PBT resin				
Net weight (excl. Accessories)	150 g	130 g	75 g		
Accessories	Screw-driver for sensitivity adjustment				

TYPICAL SENSING PERFORMANCE

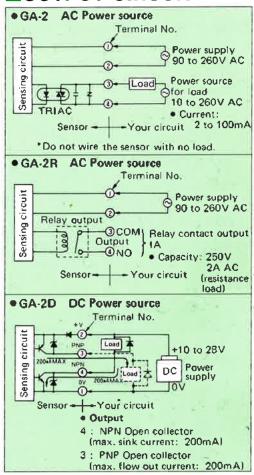


at the maximum sensing distance.



At the maximum temperature, output current has to be smaller than the value shown.

OUTPUT CIRCUIT



DIMENSIONS

