

GS-13PC

Non-contact type High performance type PNP M12 connector type

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

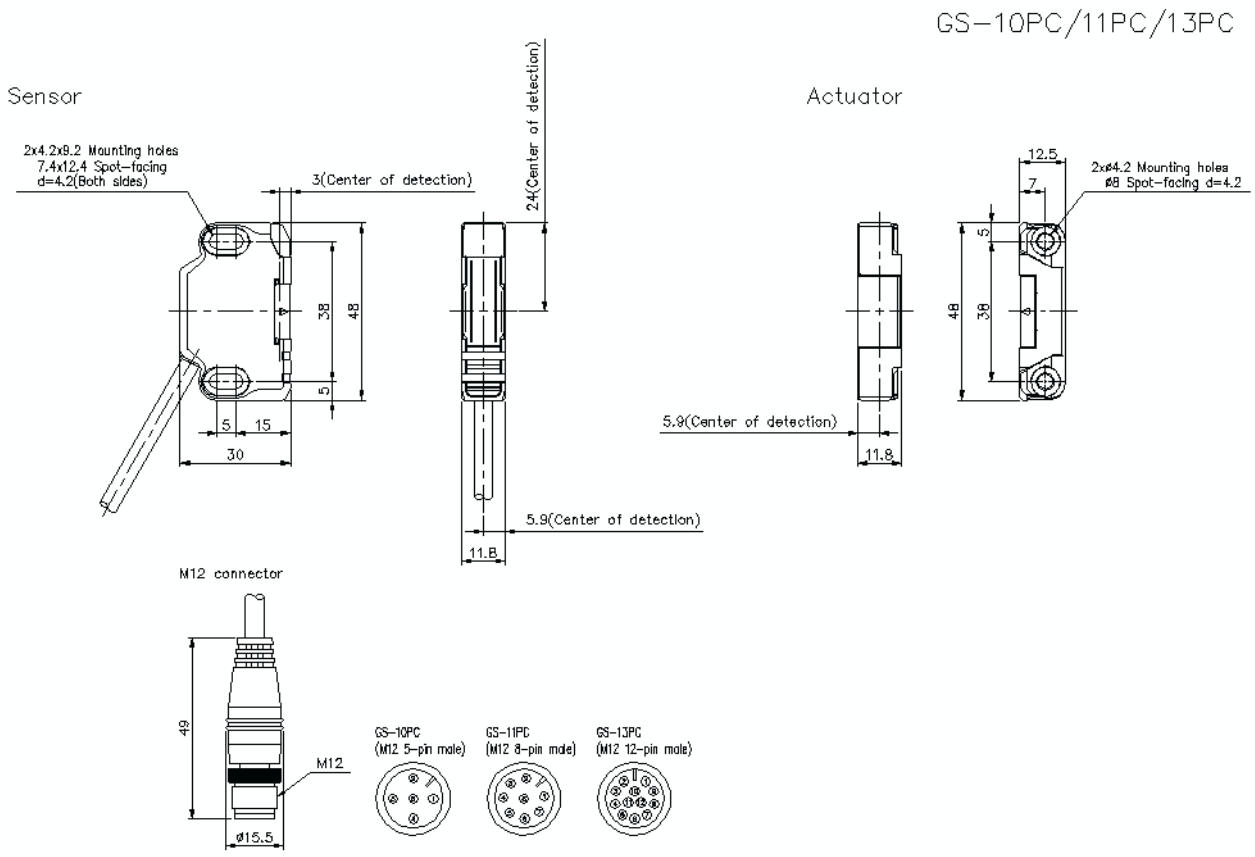
Model			GS-13PC
Type			Advanced function type
Operating distance	Front	Sao(OFF→ON)	10 mm 0.39"
		Sar(ON→OFF)	18 mm 0.71"
	Side	Sao(OFF→ON)	6 mm 0.24"
		Sar(ON→OFF)	14 mm 0.55"
Response time	Detection	Detect→Not detect	20 ms + 2 ms × (number of units cascaded -1)*1
		Not detect→Detect	30 ms + 25 ms × (number of units cascaded -1)*1
Door operation	Acceptable operation frequency		3 Hz
Cascading	Standard		Max. 30 units
	Using Y-shaped connector		-
Control output (OSSD output)	Output		Transistor outputs × 2
	Max. load current		Max. 150 mA
	Residual voltage (during ON)		Max 2.5 V (with a cable length of 5 m 16.40')
	OFF state voltage		Max 2.0 V (with a cable length of 5 m 16.40')
	Leakage current		Max. 500 µA
	Max. capacitive load		2.2 µF
	Load wiring resistance		Max.2.5Ω
AUX (Non-safety related output)	Output		Transistor output
	Number of outputs		1
	Max. load current		50 mA
	Residual voltage (during ON)		Max 2.5 V (with a cable length of 5 m 16.40')
External input (Short-circuit current)	Safety input		Approx. 1.5 mA × 2
	Reset/EDM input		Approx. 5.0 mA × 1
Applicable Standards (Safety)			EN 61508, IEC 61508 (SIL3) EN 6206, IEC62061 (SIL CL3) EN ISO13849-1: 2015 (PLe, Category 4) EN ISO14119 (Type4) IEC 60947-5-3, EN 60947-5-3 UL 61010-1, CAN/CSA-C22.2 No.61010-1
Protection circuit			Reverse current protection, short-circuit protection and surge protection for each output
Power supply	Power voltage		24 V DC ±20 % (Ripple P-P 10 % or less, Class2)
	Power consumption		0.8 W
Environmental resistance	Enclosure rating		IP65/67(IEC60529), IP69K(ISO20653) (TÜV SÜD certified) Enclosure Type 3/4X/12/13 (NEMA250)
	Operating ambient temperature		-20°C to +55°C -4°F to 131°F (No freezing)
	Operating relative humidity		5% to 95%RH

	Storage temperature		-25°C to +70°C -13°F to 158°F (No freezing)*2
	Storage relative humidity		5% to 95%RH
	Vibration resistance		10 to 55 Hz, Double amplitude 3.0 mm 0.12", 5 minutes in each of the X, Y, and Z directions (IEC 60947-5-3)
	Shock resistance		30 G in X, Y, Z directions 6 times each axis (IEC 60947-5-3)
Material	Sensor main unit	Case	Zinc die cast (Nickel chrome plating), PBT, PAR
		Cable	PVC
	Actuator	Case	SUS430, SUS304, PBT
Weight			Approx. 80 g

*1 Risk time according to IEC60947-5-3 is 150 ms + 2 ms × (number of units cascaded -1).
*2 When stored for a long period of time, please store it at a temperature of 55°C 131°F or lower.

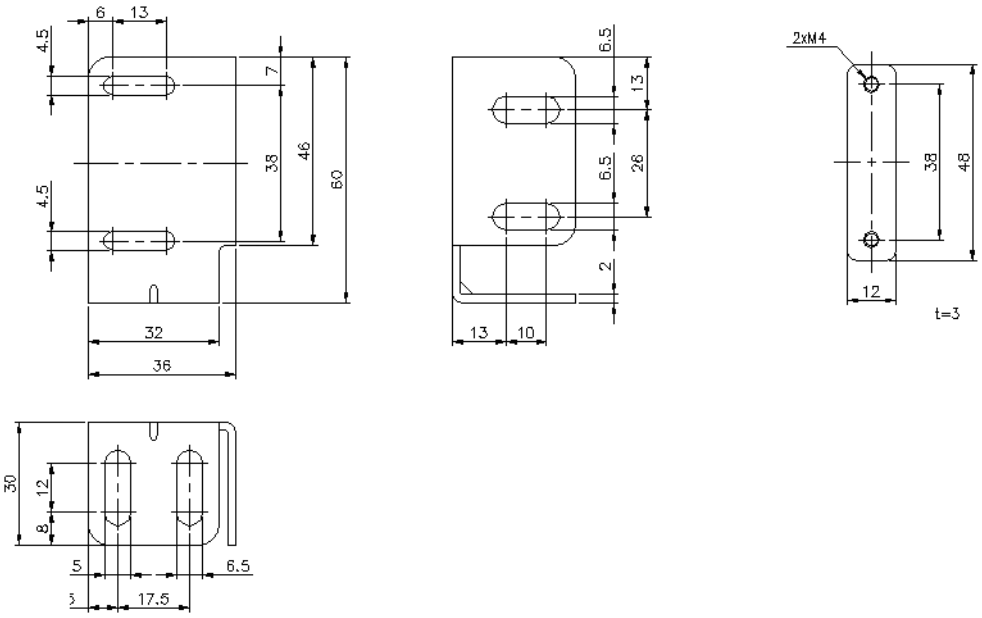
Dimensions

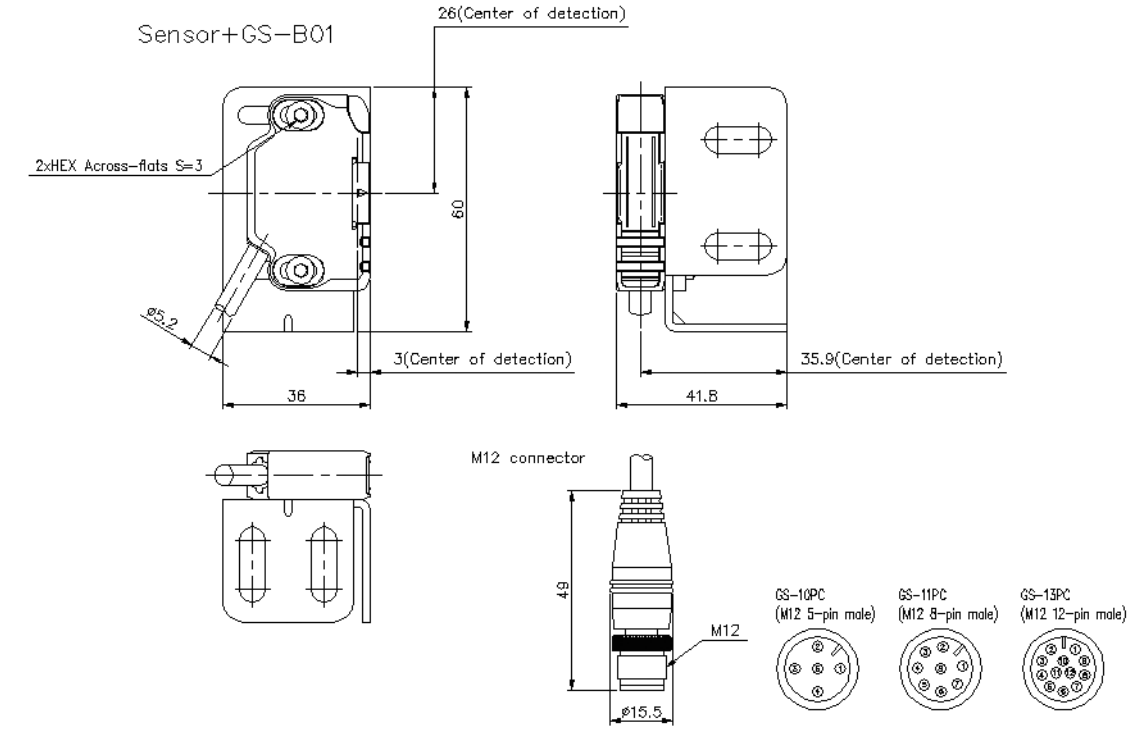
* Download CAD file or product manual for larger image/text and more detail.

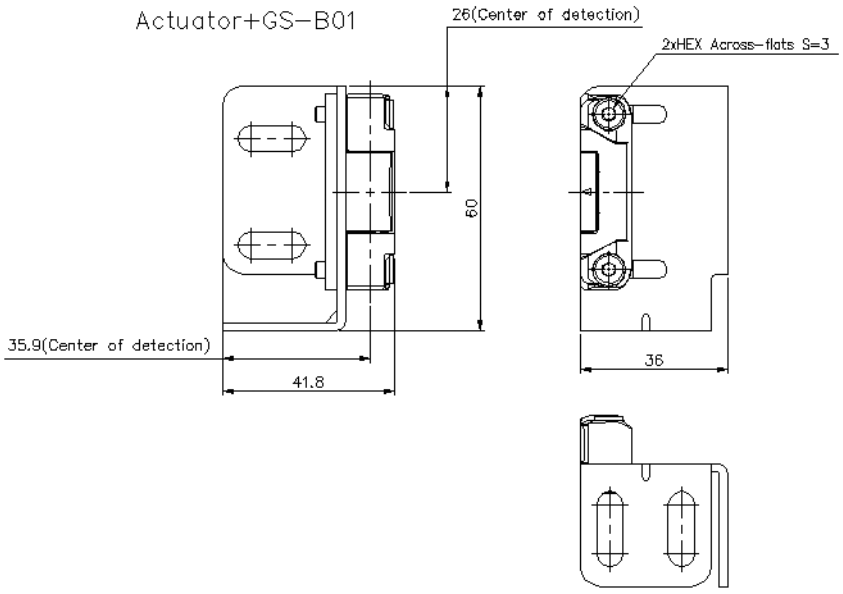


GS-10PC/11PC/13PC+GS-B01

GS-B01

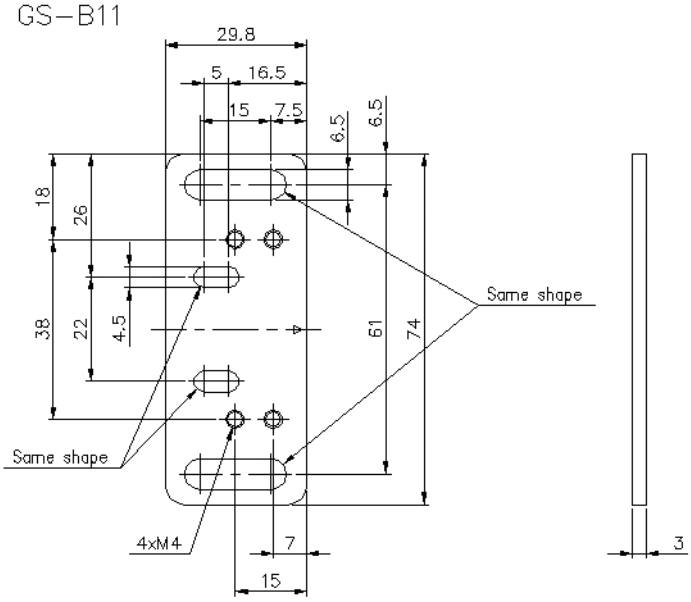


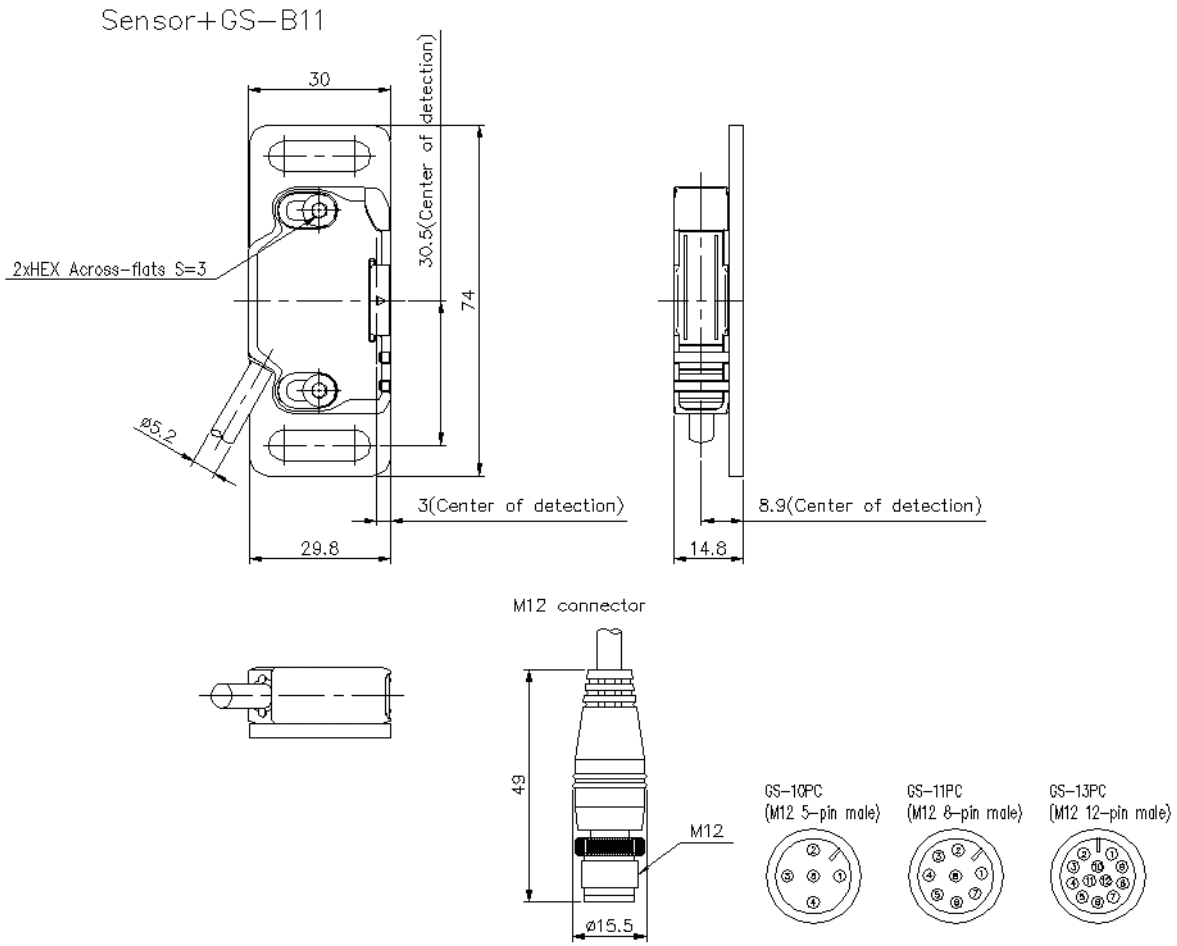

Sensor+GS-B01
26(Center of detection)
2xHEX Across-flats S=3
60
ø5.2
3(Center of detection)
36
35.9(Center of detection)
41.8
M12 connector
49
M12
ø15.5
GS-10PC
(M12 5-pin male)
GS-11PC
(M12 8-pin male)
GS-13PC
(M12 12-pin male)


Actuator+GS-B01
26(Center of detection)
2xHEX Across-flats S=3
60
35.9(Center of detection)
41.8
36

GS-10PC/11PC/13PC+GS-B11

GS-B11




Sensor+GS-B11
30
30.5(Center of detection)
74
2xHEX Across-flats S=3
ø5.2
3(Center of detection)
29.8
8.9(Center of detection)
14.8
M12 connector
49
M12
ø15.5
GS-10PC
(M12 5-pin male)
GS-11PC
(M12 8-pin male)
GS-13PC
(M12 12-pin male)

Actuator+GS-B11

