BGS sensor selection guide

Types with sensing distance of 50 mm to 300 mm

Light source/Sensing distance	Shape	Size	Distance adjustment	Features	Model	Page
Red LED 10 to 50 mm		W: 10 D: 17 H: 28	Potentiometer	● Minimum spot size of 1.5 mm ● Equipped with potentiometer to enable distance settings	**BGS-S03□**	**P.342**
Class 1 red laser 20 to 50 mm		W: 17.8 D: 31 H: 44.4	Teaching + Manual (PUSH)	● Achieves extremely accurate detection thanks to its highly reliable Tri-Core engine ● Settings can be made while viewing the digital display	**BGS-HL05T□□**	**P.310**
Class 1 red laser 20 to 50 mm		W: 17.8 D: 31 H: 44.4	Teaching + Manual (PUSH)	● Achieves extremely accurate detection thanks to its highly reliable Tri-Core engine ● Settings can be made while viewing the digital display	**BGS-HDL05T□□**	**P.310**
Red LED 10 to 80 mm		W: 10 D: 17 H: 28	Potentiometer	● Equipped with potentiometer to enable distance settings	**BGS-S08□**	**P.342**
Class 2 red laser 20 to 100 mm		W: 15 D: 30 H: 44.4	Teaching + Manual (PUSH)	● Achieves stable detection with its C-MOS element and automatic sensitivity control ● Settings can be made while viewing the digital display	**BGS-DL10T□**	**P.318**
Class 1 red laser 5 to 100 mm		W: 11 D: 20 H: 31	Potentiometer	● Minimum spot size of 1 mm ● Class 1 laser ● Industry standard size	**BGS-ZL10□**	**P.326**
Red LED 10 to 100 mm		W: 11 D: 20 H: 32.1	Potentiometer	● IP69K ● Housing material SUS316L ● Industry standard size	**BGS-ZM10□**	**P.334**
Red LED 5 to 100 mm		W: 11 D: 20 H: 31	Potentiometer	● Equipped with high power narrow beam LED ● Industry standard size	**BGS-Z10□**	**P.326**
Class 2 red laser 20 to 250 mm		W: 15 D: 30 H: 44.4	Teaching + Manual (PUSH)	● Achieves stable detection with its C-MOS element and automatic sensitivity control ● Settings can be made while viewing the digital display	**BGS-DL25T□**	**P.318**
Class 2 red laser 50 to 250 mm		W: 17.8 D: 31 H: 44.4	Teaching + Manual (PUSH)	● Achieves extremely accurate detection thanks to its highly reliable Tri-Core engine ● Settings can be made while viewing the digital display	**BGS-HL25T□2**	**P.310**
Class 2 red laser 50 to 250 mm		W: 17.8 D: 31 H: 44.4	Teaching + Manual (PUSH)	● Achieves extremely accurate detection thanks to its highly reliable Tri-Core engine ● Settings can be made while viewing the digital display	**BGS-HDL25T□2**	**P.310**
Class 1 red laser 10 to 300 mm		W: 11 D: 20 H: 31	Potentiometer	● Minimum spot size of 1.5 mm ● Class 1 laser ● Industry standard size	**BGS-ZL30□**	**P.326**
Red LED 20 to 300 mm		W: 11 D: 20 H: 32.1	Potentiometer	● IP69K ● Housing material SUS316L ● Industry standard size	**BGS-ZM30□**	**P.334**
Red LED 10 to 300 mm		W: 11 D: 20 H: 31	Potentiometer	● Equipped with high power narrow beam LED ● Industry standard size	**BGS-Z30□**	**P.326**
Red LED 10 to 300 mm		W: 20 D: 43.9 H: 65	Potentiometer	● 2-turn potentiometer with indicator ● Universal voltage types are also available, eliminating the need to choose between voltages.	**BGS-2V30□**	**P.384**

Types with sensing distance of 500 mm to 4.5 m

Light source/Sensing distance	Shape	Size	Distance adjustment	Features	Model	Page
Red LED ■ 20 to 500 mm		W: 20 D : 43.9 H : 65	Potentiometer	● 2-turn potentiometer with indicator ● Universal voltage types are also available, eliminating the need to choose between voltages.	**BGS-2V50**□	**P.384**
Class 2 laser ─✳ 100 to 700 mm		W: 15 D : 30 H : 44.4	Potentiometer	● Minimum spot size of 2.5 mm ● Low cost potentiometer type	**BGS-DL70**□	**P.360**
Red LED ■ 0.02 to 1 m		W: 20 D : 43.9 H : 65	Potentiometer	● Dual lens achieves long range detection ● Universal voltage type that eliminates the need to choose between voltages also available	**BGS-2V100**□	**P.384**
Class 1 red laser ─✳ 0.25 to 2.5 m		W: 17.4 D : 32.8 H : 44.4	Teaching + Manual PUSH	● Analog output type and 3-control-output type ● The world's smallest TOF sensor ● Built-in digital display for simple setup	**TOF-DL250**□	**P.370**
Class 1 red laser ─✳ 0.3 to 3 m		W: 23.5 D : 55.8 H : 74.5	Potentiometer	● TOF, Time Of Flight, method forms the technical basis for maximum reliability and high precision ● Immune to object color and angle	**TOF-3V300**□	**P.378**
Class 1 red laser ✳ 0 to 4.5 m		W: 17 D : 32.8 H : 44.4	Potentiometer	● The world's smallest TOF sensor ● Achieves long range detection ● Independent 2ch output	**TOF-L450D**□	**P.364**

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