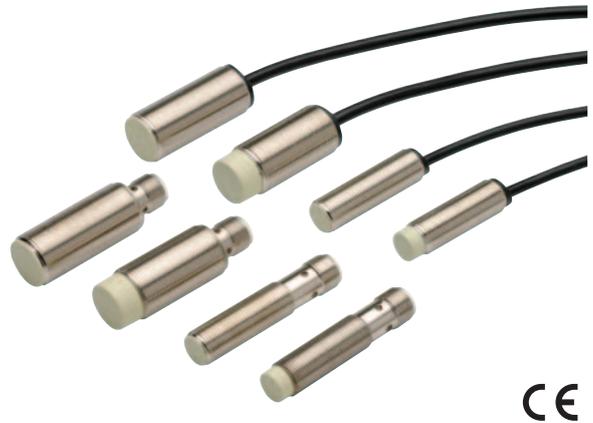


Cylindrical Proximity Sensor

E2GN

High quality at exceptional cost

- M12 and M18 models with standard sensing range.



CE

Ordering Information

Size	Sensing Distance	Connection	Body Material	Model Operation Mode : NO	
				Output Configuration: PNP	Output Configuration: NPN
Shielded	M12 2 mm	Pre-wired	Brass	E2GN-M12KS02-WP-B1	E2GN-M12KS02-WP-C1
		Connector		E2GN-M12KS02-M1-B1	E2GN-M12KS02-M1-C1
	M18 5 mm	Pre-wired		E2GN-M18KS05-WS-B1	E2GN-M18KS05-WS-C1
		Connector		E2GN-M18KS05-M1-B1	E2GN-M18KS05-M1-C1
Non-Shielded	M12 5 mm	Pre-wired		E2GN-M12KN05-WP-B1	E2GN-M12KN05-WP-C1
		Connector		E2GN-M12KN05-M1-B1	E2GN-M12KN05-M1-C1
	M18 8 mm	Pre-wired		E2GN-M18KN08-WS-B1	E2GN-M18KN08-WS-C1
		Connector		E2GN-M18KN08-M1-B1	E2GN-M18KN08-M1-C1

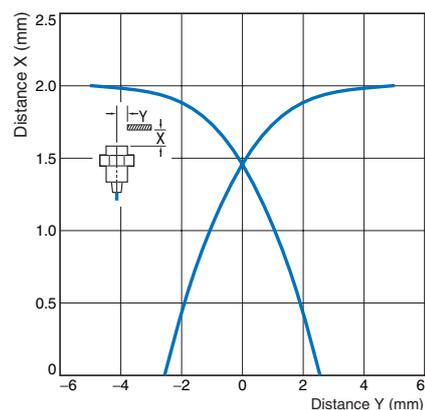
Ratings and Specifications (DC 3-wire Models)

Item	Size	M12		M18	
		Shielded	Non-Shielded	Shielded	Non-Shielded
		Model	Model	Model	Model
		E2GN-M12KS02-□□-B1	E2GN-M12KN05-□□-B1	E2GN-M18KS05-□□-B1	E2GN-M18KN08-□□-B1
		E2GN-M12KS02-□□-C1	E2GN-M12KN05-□□-C1	E2GN-M18KS05-□□-C1	E2GN-M18KN08-□□-C1
Sensing distance		2mm	5mm	5mm	8mm
Power supply voltage		10 to 30 VDC, Ripple (p-p): 10% max.			
Output type		-B1 models: PNP open collector -C1 models: NPN open collector			
Control output	Load current	200 mA max.			
	Residual voltage	3 V max. (load current: 200 mA, cable length: 2 m)			
Indicator		Operation indicator (Red)			
Operation mode (with sensing object approaching)		NO			
Protection circuits		Reversed power supply polarity protection, Output short-circuit protection, Reversed output polarity protection			
Ambient temperature range		Operating/Storage: -25 °C to 70 °C (with no icing or condensation)			
Ambient humidity range		Operating/Storage: 35% to 95% (with no icing or condensation)			
Degree of protection		IEC60529: IP67, EN60947-5-2: EMC			
Mounting torque		10 N·m			

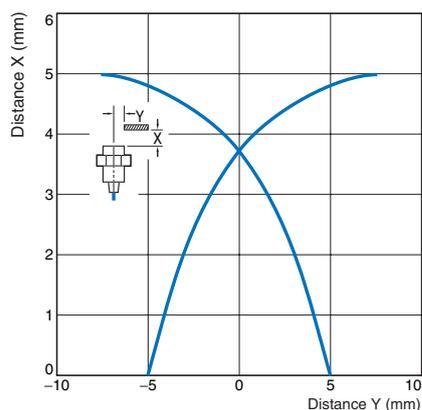
Engineering Data (Typical)

Shielded Models

E2GN-M12KS02

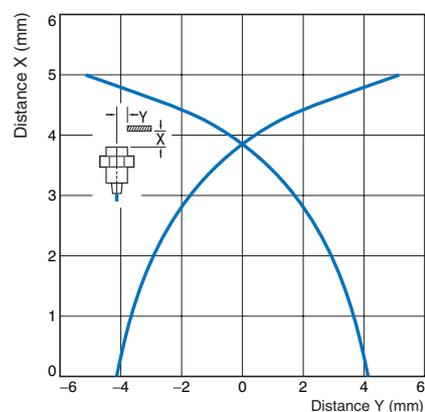


E2GN-M18KS05

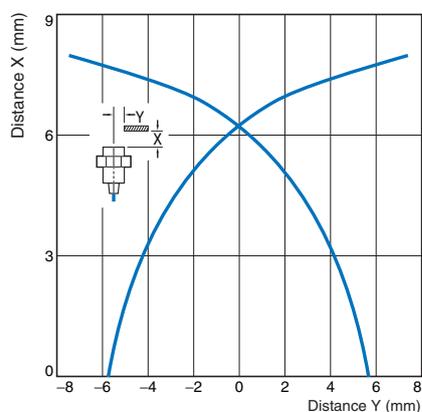


Non-Shielded Models

E2GN-M12KN05-WP-B1



E2GN-M18KN08-WS-B1



I/O Circuit Diagrams

PNP output

E2GN-M12KS02-WP-B1

E2GN-M12KS02-M1-B1

E2GN-M18KS05-WS-B1

E2GN-M18KS05-M1-B1

E2GN-M12KN05-WP-B1

E2GN-M12KN05-M1-B1

E2GN-M18KN08-WS-B1

E2GN-M18KN08-M1-B1

NPN output

E2GN-M12KS02-WP-C1

E2GN-M12KS02-M1-C1

E2GN-M18KS05-WS-C1

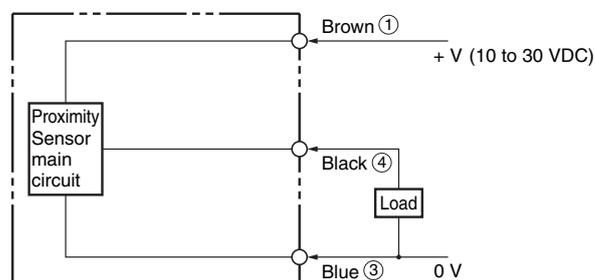
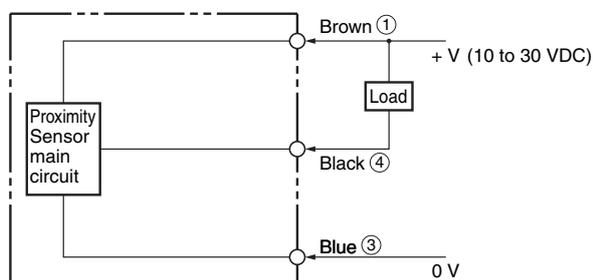
E2GN-M18KS05-M1-C1

E2GN-M12KN05-WP-C1

E2GN-M12KN05-M1-C1

E2GN-M18KN08-WS-C1

E2GN-M18KN08-M1-C1



Note: ① ③ ④ are the pins' numbers of the Connector.

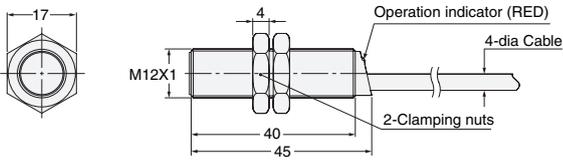
E2GN

Dimensions

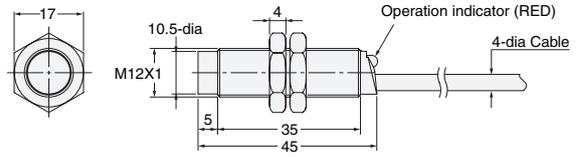
(Unit: mm)

Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

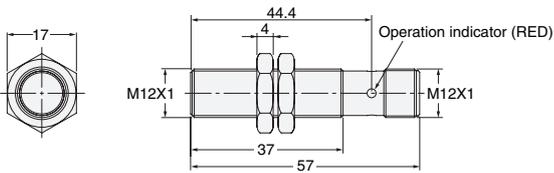
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E2GN-M12KS02-WP-C1



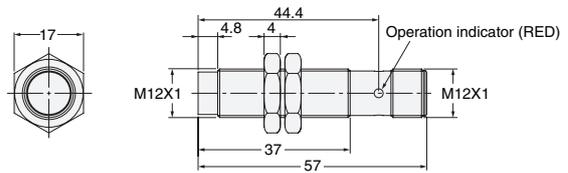
E2GN-M12KN05-WP-B1
E2GN-M12KN05-WP-C1



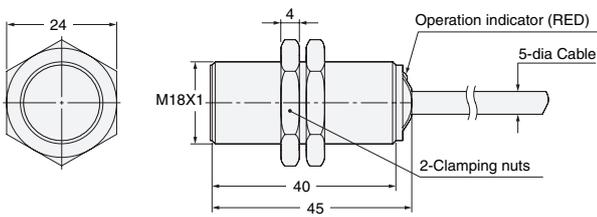
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E2GN-M12KS02-M1-C1



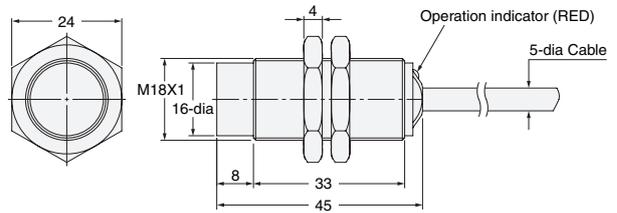
E2GN-M12KN05-M1-B1
E2GN-M12KN05-M1-C1



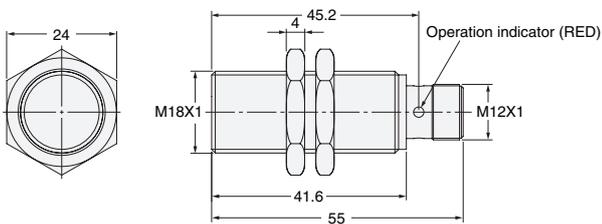
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E2GN-M18KS05-WS-C1



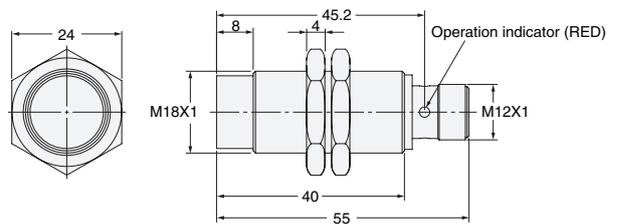
E2GN-M18KN08-WS-B1
E2GN-M18KN08-WS-C1



E2GN-M18KS05-M1-B1
E2GN-M18KS05-M1-C1



E2GN-M18KN08-M1-B1
E2GN-M18KN08-M1-C1



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