

# << Inductive Sensor

## Metal Barrel-G series

### M18x1



### Description:

Brass nickel-plated, threaded barrel, extended operating distance, DC 3-wire output, IP68 protection class, LED indicator.

### Technical Data:

Type	Rated Operating Distance Sn	Mounting	Output	Voltage Range U <sub>B</sub>	Rated Current	Switching Frequency	Ambient Temperature	Connection	Fig
Fi8-G18-OP6L	8mm	Flush	PNP NO	10...30VDC	≤200mA	500Hz	-30...85°C	2m cable	Fig.1
Fi8-G18-CP6L	8mm	Flush	PNP NC	10...30VDC	≤200mA	500Hz	-30...85°C	2m cable	Fig.1
Fi8-G18-ON6L	8mm	Flush	NPN NO	10...30VDC	≤200mA	500Hz	-30...85°C	2m cable	Fig.1
Fi8-G18-CN6L	8mm	Flush	NPN NC	10...30VDC	≤200mA	500Hz	-30...85°C	2m cable	Fig.1
Ni12-G18-OP6L	12mm	Non-flush	PNP NO	10...30VDC	≤200mA	350Hz	-30...85°C	2m cable	Fig.2
Ni12-G18-CP6L	12mm	Non-flush	PNP NC	10...30VDC	≤200mA	350Hz	-30...85°C	2m cable	Fig.2
Ni12-G18-ON6L	12mm	Non-flush	NPN NO	10...30VDC	≤200mA	350Hz	-30...85°C	2m cable	Fig.2
Ni12-G18-CN6L	12mm	Non-flush	NPN NC	10...30VDC	≤200mA	350Hz	-30...85°C	2m cable	Fig.2
Ni16-G18-OP6L	16mm	Non-flush	PNP NO	10...30VDC	≤200mA	250Hz	-30...85°C	2m cable	Fig.2
Ni16-G18-CP6L	16mm	Non-flush	PNP NC	10...30VDC	≤200mA	250Hz	-30...85°C	2m cable	Fig.2
Ni16-G18-ON6L	16mm	Non-flush	NPN NO	10...30VDC	≤200mA	250Hz	-30...85°C	2m cable	Fig.2
Ni16-G18-CN6L	16mm	Non-flush	NPN NC	10...30VDC	≤200mA	250Hz	-30...85°C	2m cable	Fig.2

### Dimensions:

Fig.1

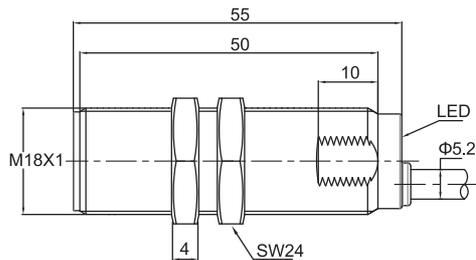
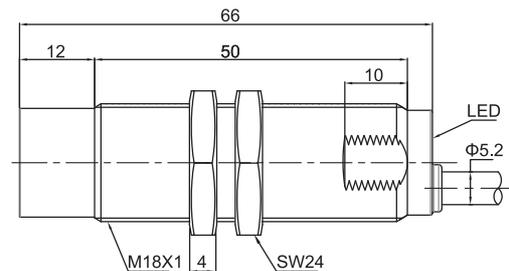


Fig.2



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## Metal Barrel-G series

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### Description:

Brass nickel-plated, threaded barrel, extended operating distance, DC 3-wire output, IP68 protection class, LED indicator.

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### Technical Data:

Type	Rated Operating Distance Sn	Mounting	Output	Voltage Range U <sub>a</sub>	Rated Current	Switching Frequency	Ambient Temperature	Connection	Fig
Fi8-G18-OP6L-Q12	8mm	Flush	PNP NO	10...30VDC	≤200mA	500Hz	-30...85°C	M12 Connector	Fig.1
Fi8-G18-CP6L-Q12	8mm	Flush	PNP NC	10...30VDC	≤200mA	500Hz	-30...85°C	M12 Connector	Fig.1
Fi8-G18-ON6L-Q12	8mm	Flush	NPN NO	10...30VDC	≤200mA	500Hz	-30...85°C	M12 Connector	Fig.1
Fi8-G18-CN6L-Q12	8mm	Flush	NPN NC	10...30VDC	≤200mA	500Hz	-30...85°C	M12 Connector	Fig.1
Ni12-G18-OP6L-Q12	12mm	Non-flush	PNP NO	10...30VDC	≤200mA	350Hz	-30...85°C	M12 Connector	Fig.2
Ni12-G18-CP6L-Q12	12mm	Non-flush	PNP NC	10...30VDC	≤200mA	350Hz	-30...85°C	M12 Connector	Fig.2
Ni12-G18-ON6L-Q12	12mm	Non-flush	NPN NO	10...30VDC	≤200mA	350Hz	-30...85°C	M12 Connector	Fig.2
Ni12-G18-CN6L-Q12	12mm	Non-flush	NPN NC	10...30VDC	≤200mA	350Hz	-30...85°C	M12 Connector	Fig.2
Ni16-G18-OP6L-Q12	16mm	Non-flush	PNP NO	10...30VDC	≤200mA	250Hz	-30...85°C	M12 Connector	Fig.2
Ni16-G18-CP6L-Q12	16mm	Non-flush	PNP NC	10...30VDC	≤200mA	250Hz	-30...85°C	M12 Connector	Fig.2
Ni16-G18-ON6L-Q12	16mm	Non-flush	NPN NO	10...30VDC	≤200mA	250Hz	-30...85°C	M12 Connector	Fig.2
Ni16-G18-CN6L-Q12	16mm	Non-flush	NPN NC	10...30VDC	≤200mA	250Hz	-30...85°C	M12 Connector	Fig.2

### Dimensions:

Fig.1

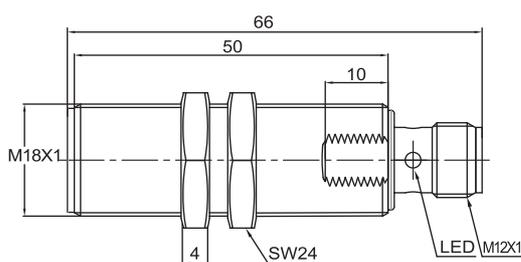
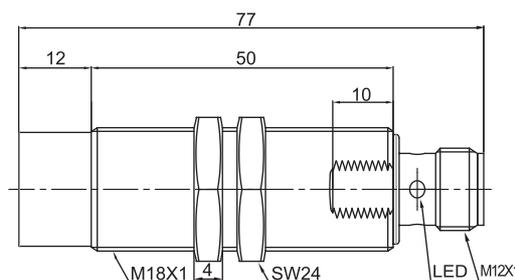


Fig.2



# << Inductive Sensor

## Metal Barrel-G3 series

**M18x1**



### Description:

Brass nickel-plated, threaded barrel, extended operating distance, DC 3-wire output, IP68 protection class, LED indicator.

Inductive Sensors

### Technical Data:

Type	Rated Operating Distance $S_n$	Mounting	Output	Voltage Range $U_a$	Rated Current	Switching Frequency	Ambient Temperature	Connection	Fig
Fi12-G18-OP6L	12mm	Flush	PNP NO	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.1
Fi12-G18-CP6L	12mm	Flush	PNP NC	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.1
Fi12-G18-ON6L	12mm	Flush	NPN NO	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.1
Fi12-G18-CN6L	12mm	Flush	NPN NC	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.1
Ni20-G18-OP6L	20mm	Non-flush	PNP NO	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.2
Ni20-G18-CP6L	20mm	Non-flush	PNP NC	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.2
Ni20-G18-ON6L	20mm	Non-flush	NPN NO	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.2
Ni20-G18-CN6L	20mm	Non-flush	NPN NC	10...30VDC	$\leq 200\text{mA}$	200Hz	-25...70°C	2m cable	Fig.2

### Dimensions:

Fig.1

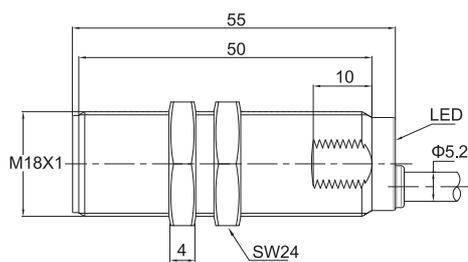
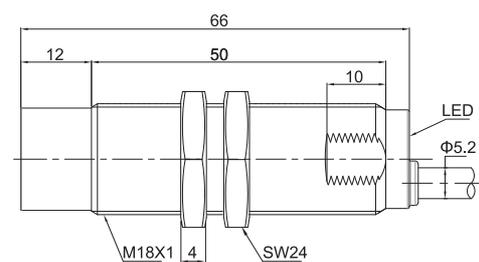


Fig.2



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## Metal Barrel-G3 series

### M18x1



### Description:

Brass nickel-plated, threaded barrel, extended operating distance, DC 3-wire output, IP68 protection class, LED indicator, M12 connector.

Inductive Sensors

### Technical Data:

Type	Rated Operating Distance S <sub>n</sub>	Mounting	Output	Voltage Range U <sub>B</sub>	Rated Current	Switching Frequency	Ambient Temperature	Connection	Fig
Fi12-G18-OP6L-Q12	12mm	Flush	PNP NO	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.1
Fi12-G18-CP6L-Q12	12mm	Flush	PNP NC	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.1
Fi12-G18-ON6L-Q12	12mm	Flush	NPN NO	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.1
Fi12-G18-CN6L-Q12	12mm	Flush	NPN NC	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.1
Ni20-G18-OP6L-Q12	20mm	Non-flush	PNP NO	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.2
Ni20-G18-CP6L-Q12	20mm	Non-flush	PNP NC	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.2
Ni20-G18-ON6L-Q12	20mm	Non-flush	NPN NO	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.2
Ni20-G18-CN6L-Q12	20mm	Non-flush	NPN NC	10...30VDC	≤200mA	200Hz	-25...70°C	M12 Connector	Fig.2

### Dimensions:

Fig.1

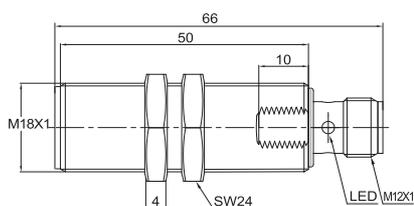


Fig.2

