

# Capacitive Sensors

## Metal Barrel-M18

### Descriptions:

Metal housing, threaded barrel, DC 3/4-wire, yellow LED, IP67



### Features:

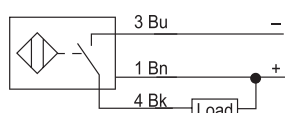
- Flush/non-flush option
- Multi-circuit protection
- Varied output
- Sensitivity adjustment of potentiometer

### Parameter:

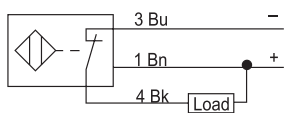
Type	Rated operating distance	Mounting	Output function	Output type	Voltage supply	Rated current	Switching frequency	Ambient temperature	Connection	Mechanical Drawing
FC5-M18-OP6L	5mm	flush	NO	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 1
FC5-M18-ON6L	5mm	flush	NO	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 1
FC5-M18-CP6L	5mm	flush	NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 1
FC5-M18-CN6L	5mm	flush	NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 1
FC5-M18-BP6L	5mm	flush	NO+NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 1
FC5-M18-BN6L	5mm	flush	NO+NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 1
NC8-M18-OP6L	8mm	non-flush	NO	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 2
NC8-M18-ON6L	8mm	non-flush	NO	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 2
NC8-M18-CP6L	8mm	non-flush	NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 2
NC8-M18-CN6L	8mm	non-flush	NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 2
NC8-M18-BP6L	8mm	non-flush	NO+NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 2
NC8-M18-BN6L	8mm	non-flush	NO+NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	2m cable	drawing 2
FC5-M18-OP6L-Q12	5mm	flush	NO	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 3
FC5-M18-ON6L-Q12	5mm	flush	NO	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 3
FC5-M18-CP6L-Q12	5mm	flush	NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 3
FC5-M18-CN6L-Q12	5mm	flush	NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 3
FC5-M18-BP6L-Q12	5mm	flush	NO+NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 3
FC5-M18-BN6L-Q12	5mm	flush	NO+NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 3
NC8-M18-OP6L-Q12	8mm	non-flush	NO	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 4
NC8-M18-ON6L-Q12	8mm	non-flush	NO	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 4
NC8-M18-CP6L-Q12	8mm	non-flush	NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 4
NC8-M18-CN6L-Q12	8mm	non-flush	NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 4
NC8-M18-BP6L-Q12	8mm	non-flush	NO+NC	PNP	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 4
NC8-M18-BN6L-Q12	8mm	non-flush	NO+NC	NPN	10...30VDC	≤200mA	50Hz	-25...70°C	M12 connector	drawing 4

## Metal Barrel-M18

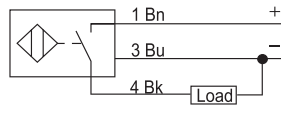
### Connection Diagram:



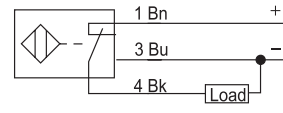
NPN NO



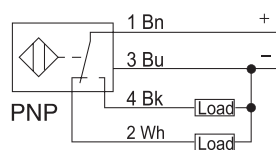
NPN NC



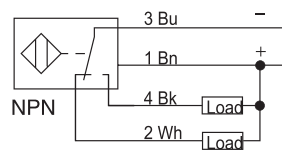
PNP NO



PNP NC



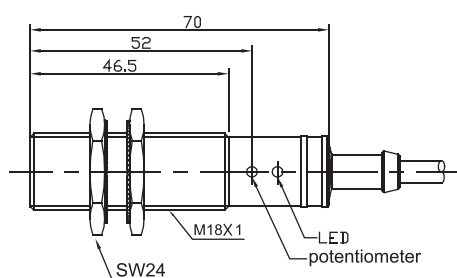
2 NC/ 4 NO



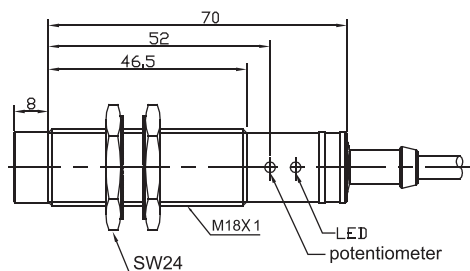
2 NC/ 4 NO

### Mechanical Drawing:

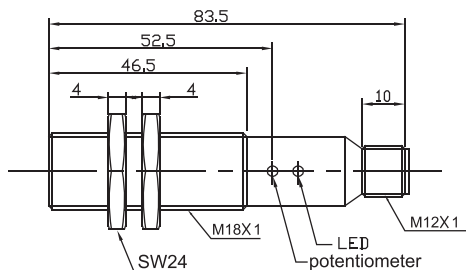
Drawing 1



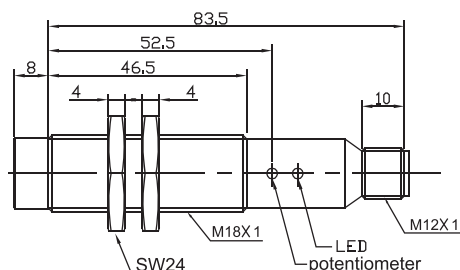
Drawing 2



Drawing 3



Drawing 4



# Capacitive Sensors

## Metal Barrel-M18

### Descriptions:

Metal housing, threaded barrel, AC 2-wire, yellow LED, IP67



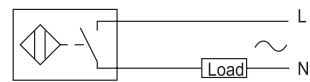
### Features:

- Flush/non-flush option
- Wide voltage range
- Multi-circuit protection
- Sensitivity adjustment of potentiometer

### Parameter:

Type	Rated operating distance	Mounting	Output function	Output type	Voltage supply	Rated current	Switching frequency	Ambient temperature	Connection	Mechanical Drawing
FC5-M18-OSA3L	5mm	flush	NO	AC	20...250VDC	≤300mA	15Hz	-25...70°C	2m cable	drawing 1
FC5-M18-CSA3L	5mm	flush	NC	AC	20...250VDC	≤300mA	15Hz	-25...70°C	2m cable	drawing 1
NC8-M18-OSA3L	8mm	non-flush	NO	AC	20...250VDC	≤200mA	15Hz	-25...70°C	2m cable	drawing 2
NC8-M18-CSA3L	8mm	non-flush	NC	AC	20...250VDC	≤200mA	15Hz	-25...70°C	2m cable	drawing 2
FC5-M18-OSA3L-Q12	5mm	flush	NO	AC	20...250VDC	≤300mA	15Hz	-25...70°C	M12 connector	drawing 3
FC5-M18-CSA3L-Q12	5mm	flush	NC	AC	20...250VDC	≤300mA	15Hz	-25...70°C	M12 connector	drawing 3
NC8-M18-OSA3L-Q12	8mm	non-flush	NO	AC	20...250VDC	≤200mA	15Hz	-25...70°C	M12 connector	drawing 4
NC8-M18-CSA3L-Q12	8mm	non-flush	NC	AC	20...250VDC	≤200mA	15Hz	-25...70°C	M12 connector	drawing 4

### Connection Diagram:



AC2- wire NO

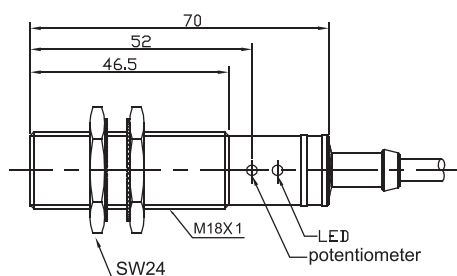


AC2- wire NC

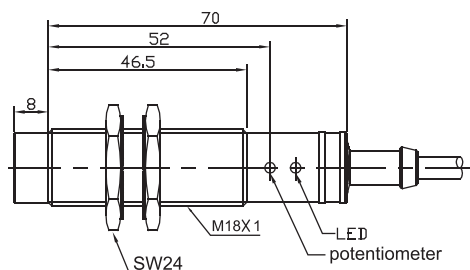
## Metal Barrel-M18

### Mechanical Drawing:

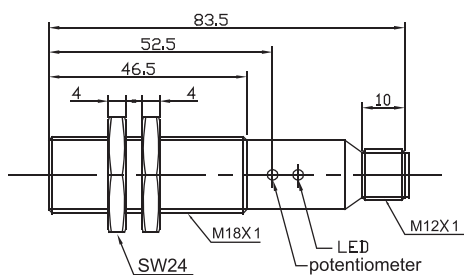
Drawing 1



Drawing 2



Drawing 3



Drawing 4

