
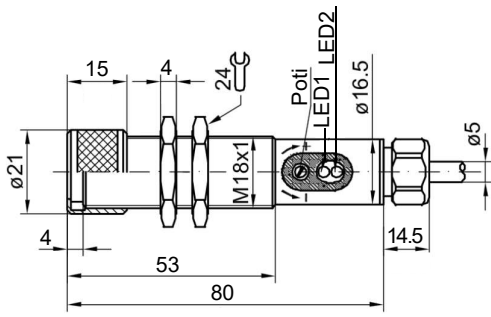


PHOTOELECTRIC SENSORS

Cylindrical - Housing Diameter M18 x 1


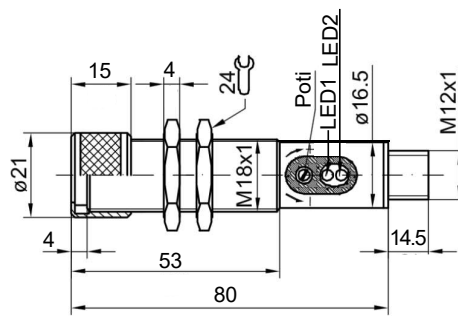


Part Number: FMS18-34 U	Sensing distance Sn: 1000 mm	Switching frequency: 1000Hz
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Dimensions are in mm.

Part Number: FMS18-34 UL4	Sensing distance Sn: 1000 mm	Switching frequency: 1000Hz
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Dimensions are in mm.

These sensors share the following technical specifications:

Operating voltage U_B :	10 ... 36 VDC	Outputs:	PNP or NPN, N.O. or N.C. switchable
Ripple content max.:	10% of U_B	Short circuit protection:	built in
Power consumption	25 mA at $U_B = 24$ V DC	Polarity reversal protection:	built in
Max. load current:	150 mA	Housing material:	Brass, nickel plated
Output current:	300 mA	Protection standard:	IP 65
Voltage drop:	< 2.4 V at I_L 200 mA	FMS18-34 UL4 weight with plug:	80 g
Switching frequency (P/P ratio 1:1):	1000 Hz	FMS18-34 UL4 fitting cable:	S12 / 4-pin
Switch time d-l/l-d:	0.5 ms/0.5 ms	FMS18-34 U weight with cable:	175 g
Ambient temperature:	-20 ... +60°C	FMS18-34 U cable:	4 x 0.25 mm ² , PUR, 3 m
Operating voltage indicator:	LED 1 green	Duty cycle:	100%
Function indicator:	LED 2 yellow	Ready delay:	< 50 ms
Function reserve indicator:	LED 2 red		

Common Optical Data	
Sensing range with polarizing filter:	1000 mm
Target:	400 x 400 mm, white
Hysteresis:	10% of Sn (typ.)
Sender:	IR-LED 880 nm pulsed
Sensitivity adjustment:	18-turn potentiometer
Opening angle:	Approx. 17°
Surrounding light sensitivity:	None

Miscellaneous part numbers	
Mounting bracket:	M18
Polarized filter needed when used without glass-fiber-optic:	M18
Fitting fiber-optic:	18/30-...

Design and technical details subject to change

Locon Sensor Systems, Inc.

Toll-Free: 800-356-2661 · Phone: 419-740-8445 · Fax: 216-359-0077 · E-mail: sales@locon.net · Website: www.locon.net

PHOTOELECTRIC SENSORS

Cylindrical - Housing Diameter M30 x 1.5



Part Number: FMS30-34 U **Sensing distance Sn: 2000 mm** **Switching frequency: 100 Hz**

Dimensions are in mm.

Part Number: FMS30-34 UL4 **Sensing distance Sn: 2000 mm** **Switching frequency: 100 Hz**

Dimensions are in mm.

These sensors share the following technical specifications:

Operating voltage U_B :	10 ... 36 VDC	Outputs:	PNP or NPN, N.O. or N.C. switchable
Ripple content max.:	10% of U_B	Short circuit protection:	built in
Power consumption	50 mA at $U_B = 24$ V DC	Polarity reversal protection:	built in
Max. load current:	150 mA	Housing material:	Brass, nickel plated
Output current:	200 mA	Protection standard:	IP 65
Voltage drop:	< 2.4 V at I_L 200 mA	FMS30-34 UL4 weight with plug:	185 g
Switching frequency (P/P ratio 1:1):	100 Hz	FMS30-34 UL4 fitting cable:	S12 / 4-pin
Switch time d-l/l-d:	5 ms/5 ms	FMS30-34 U weight with cable:	300 g
Ambient temperature:	-20 ... +60°C	FMS30-34 U cable:	4 x 0.25 mm ² , PUR, 3 m
Operating voltage indicator:	LED green	Duty cycle:	100%
Function indicator:	LED yellow	Ready delay:	< 50ms
Function reserve indicator:	LED red		

Common Optical Data	
Sensing range with polarizing filter:	2000 mm
Target:	400 x 400 mm, white
Hysteresis:	10% of Sn (typ.)
Sender:	IR-LED 880 nm pulsed
Sensitivity adjustment	18-turn potentiometer
Opening angle:	Approx. 17°
Surrounding light sensitivity:	None

Miscellaneous part numbers	
Mounting bracket:	M30
Polarized filter needed when used without glass-fiber-optic:	M30
Fitting fiber-optic:	18/30-... and 30-...

Design and technical details subject to change

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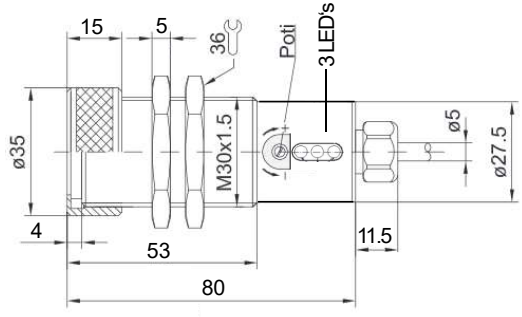
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PHOTOELECTRIC SENSORS

Cylindrical - Housing Diameter M30 x 1.5


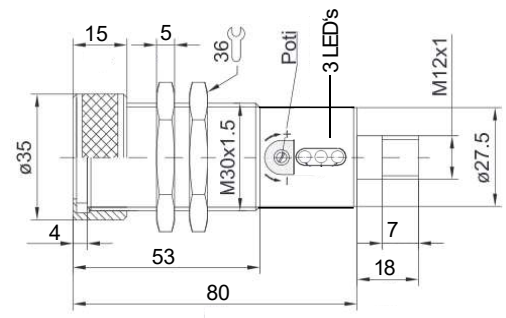


Part Number: FMS30-44 U-60	Sensing distance Sn: 500 mm	Switching frequency: 5000Hz
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Dimensions are in mm.

Part Number: FMS30-44 UL4-60	Sensing distance Sn: 500 mm	Switching frequency: 5000 Hz
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Dimensions are in mm.

These sensors share the following technical specifications:

Operating voltage U_B :	10 ... 36 VDC	Outputs:	PNP or NPN, N.O. or N.C. switchable
Ripple content max.:	10% of U_B	Short circuit protection:	built in
Power consumption	50 mA at $U_B = 24$ V DC	Polarity reversal protection:	built in
Max. load current:	150 mA	Housing material:	Brass, nickel plated
Output current:	200 mA	Protection standard:	IP 65
Voltage drop:	< 2.4 V at I_L 200 mA	FMS30-44 UL4 weight with plug:	230 g
Switching frequency (P/P ratio 1:1):	5000 Hz	FMS30-44 UL4 fitting cable:	S12 / 4-pin
Switch time d-l/l-d:	0.1 ms/0.1 ms	FMS30-44 U weight with cable:	340 g
Ambient temperature:	-20 ... +60°C	FMS30-44 U cable:	4 x 0.25 mm ² , PUR, 3 m
Operating voltage indicator:	LED green	Duty cycle:	100%
Function indicator:	LED yellow	Ready delay:	< 50ms
Function reserve indicator:	LED red		

Common Optical Data	
Sensing range with polarizing filter:	500 mm
Target:	400 x 400 mm, white
Hysteresis:	10% of Sn (typ.)
Sender:	IR-LED 880 nm pulsed
Sensitivity adjustment	Poti
Opening angle:	Approx. 17°
Surrounding light sensitivity:	None

Miscellaneous part numbers	
Mounting bracket:	M30
Polarized filter needed when used without glass-fiber-optic:	M30
Fitting fiber-optic:	18/30-... and 30-...

Design and technical details subject to change

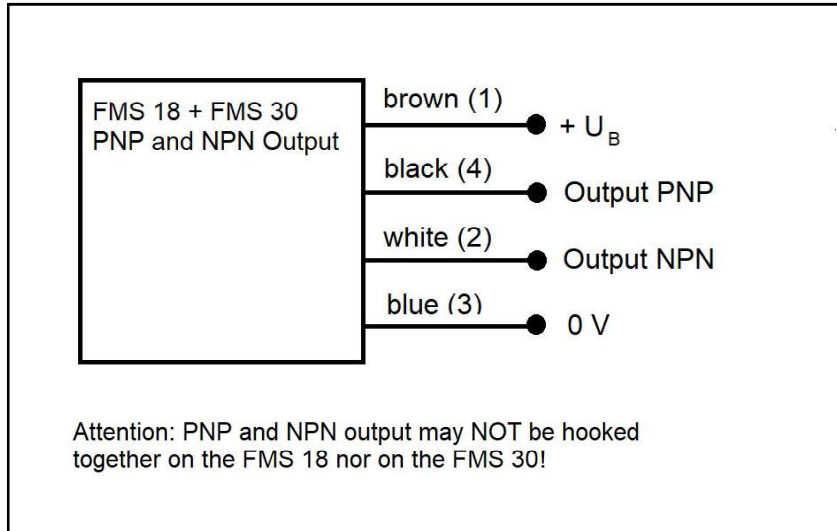
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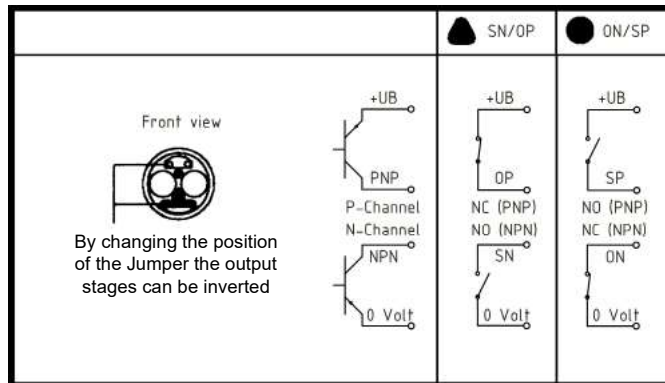
PHOTOELECTRIC SENSORS - CYLINDRICAL

Housing Diameter M18 & M30

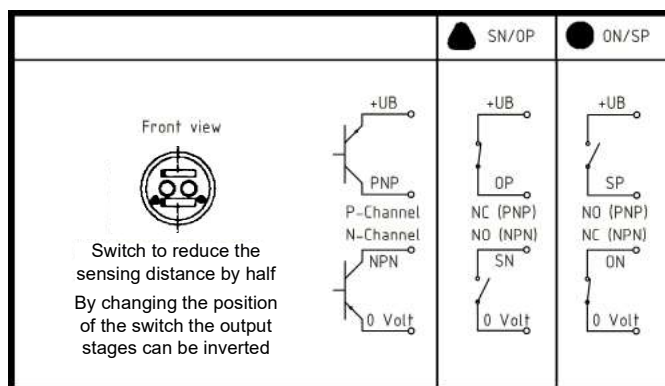
FMS18 & FMS30 Wiring & Setting Diagrams



Setting the output of the FMS 18:



Setting the output of the FMS 30:



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