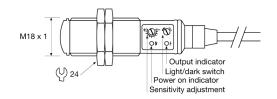


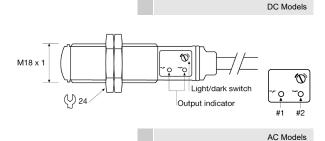
Product Data				
Electrical Data				
	D	C	Α	.C
	Transmitter	Receiver	Transmitter	Receiver
Supply Voltage	10-30 V dc		20-250 V ac	
Voltage ripple	+/- 15%		-	
Reverse polarity protected	Yes		-	
Short circuit protected	- Yes		-	
Current consumption	15 mA	5 mA	3 mA	2 mA
Max. output load	-	120 mA/30 V dc	-	200 mA

<b>Environmental Data</b>		
Temperature, operation		-20 to +60 °C
Sealing class		IP 67
Approvals	ac	CA CE. <b>FLI</b> us
	dc	ĽK <b>(€</b>

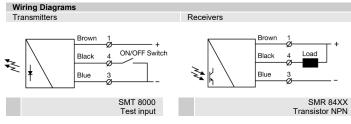
Available Mo	dels				
	Model	Supply Voltage	Output	Output Mode	Sensing Range
Transmitter	SMT 8000	10-30 V dc	-	-	20 m
rransmiller	SMT 8600	20-250 V ac	-	-	7 m
	SMR 8400	10-30 V dc	NPN	Light/dark	0-7 m,
Receiver	SMR 8500		PNP	Light/dark	adjustable
	SMR 8420		NPN	Light/dark	0-20 m,
	SMR 8520		PNP	Light/dark	adjustable
	SMR 8800	20-250 V ac	SCR	Light/dark	7 m fixed

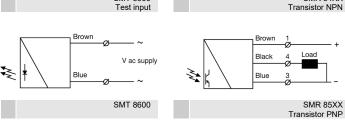
### Illustration

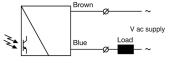




Connection







WARNING: DO NOT CONNECT THE SMR WITHOUT A SERIAL LOAD SMR 8800 SCR

Connection Wires/Pi	ins		
	Cable	3 pin, M8 plug	4 pin, M12 plug
AC supply	Blue & Brown	•	-
Supply +	Brown	Pin 1	Pin 1
Supply -	Blue	Pin 3	Pin 3
Control/Output	Black	Pin 4	Pin 4
		Separat plus	9 2 4 • • • • • • • • • • • • • • • • • •
		Sensor plug	Sensor plug

# Mounting & Alignment

Moun	ting & Alignment
1	Mount the transmitter and receiver sensors facing each other. Make sure the distance between the sensors does not exceed the specified sensing range of the system.
2	Align the sensors by moving, either the transmitter or receiver sensor, horizontally and vertically until the output is:  - Deactivated when no object is present. (Dark operated) - Activated when no object is present. (Light operated)
3	Fasten the transmitter and receiver sensors securely using the enclosed locking nuts and/or a mounting bracket.  Avoid acute angles on cable close to sensor.

## Adjustments

Output Mode Selection
The output mode can be selected via an integral switch on the receiver sensor. Refer to
Output Logic table for output mode reference

Carpar Logic table for Carpar mode Foresteen.				
Light Operated (N.C.)	Enables the output to be inactive when there is an object present.	Turn potentiometer to full clockwise position		
Dark Operated (N.O.)	Enables the output to be active when there is an object present.	Turn potentiometer full counter clockwise position		

Output Logic					
		Output	Yellow LED		
Detection	Output Mode		DC models	AC models	
		Status		#1	#2
Object absent	Dark operated (N.O.)	Open	Off	On	Off
	Dark operated (N.O.)	Open	Oli	OII	Oii
Transmitter Receiver	Limbt an avata d (NLC.)	Closed	On	Off	On
	Light operated (N.C.)	Ciosea	On	Oli	On
Object present	Linkton and d (N.O.)	0	0#	0	0"
- I	Light operated (N.C.)	Open	Off	On	Off
Transmitter Receiver		- ·	_		_
Transmitter Receiver	Dark operated (N.O.)	Closed	On	Off	On

#### Sensitivity Adjustment DC models only

Maximum sensitivity can be used for most applications and is advised for applications with contaminated environments. Increase the sensitivity to maximum by turning the potentiometer, on the receiver sensor, to full clockwise position.

Sensitivity adjustment may be required in applications where objects to be detected are small or translucent. Proceed with the following steps:

1	Start with the sensitivity at maximum by turning the potentiometer to full clockwise position.
2	Select target object with smallest dimensions and most translucent surface.
3	Place target object between transmitter and receiver sensors.
4	Decrease the sensitivity by turning the potentiometer counter clockwise until the output changes.
5	Remove target object. Check output status has changed.

The transmitter can be externally disabled and enabled, via the control wire, for test purposes. The test input requires the control wire to be connected to – (negative) supply wire. Make sure no object is present in the detection area when transmitter is disabled for test. When the nsmitter is disabled, the receiver should change output

a another to alcablea, the receiver change capati		
Enable transmitter	Open (off) control switch (connected to + , or not connected)	
Disable transmitter	Close (on) control switch (connected to -)	
No. 18 of the contract of the		

Note: If the test input is not to be used, it is recommended to connect the control wire to + supply wire.

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