



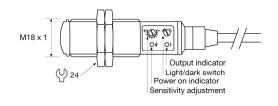
DC	AC
10-30 V dc	20-250 V ac
+/- 15%	=
Yes	=
Yes	-
14 mA	2 mA
120 mA	200 mA
	10-30 V dc +/- 15% Yes Yes 14 mA

Environmental Data			
Temperature, operation		-20 to	+60 ^o C
Sealing class		IP 67	IP 60
Approvala	ac	Œ	c 91 0us
Approvals	dc		Œ

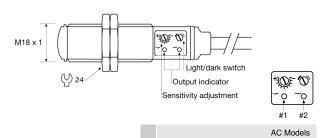
Available Models					
	Model	Supply Voltage	Output	Output Mode	Sensing Range
	SMRR 8400	10-30 V dc	NPN	Light/dark	
Retro Reflective	SMRR 8500		PNP	Light/dark	0-3 m, adjustable*
	SMRR 8800	20-250 V ac	SCR	Light/dark	
*N . M					

^{*} Note: Measured against Ø85 mm retro-reflector.

Illustration

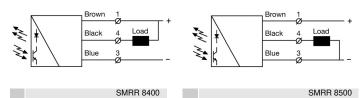


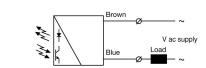
DC Models



Connection

Wiring Diagrams





WARNING: ON AC MODELS
DO NOT CONNECT THE SENSOR WITHOUT A SERIAL LOAD

Transistor NPN

SMRR 8800 SCR

Transistor PNP

Connection Wires/Pins			
	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
Output	Black	Pin 4	Pin 4
		© 4 0 1 3 Sensor plug	Sensor plug

Mounting & Alignment

Moun	Mounting & Alignment					
1	Position the sensor pointing at a retro-reflector.					
2	Align by moving sensor horizontally and vertically until the output is deactivated when aiming at retro-reflector and when no object is present (refer to Output Logic table).					
3	Fasten the sensor 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 light/dark switch. Refer to Output Logic table for output mode reference.				
	Light Operated (N.C.)	Enables the output to be inactive when there is an object present.	Turn switch to full clockwise position		
	Dark Operated (N.O.)	Enables the output to be active when there is an object present.	Turn switch to full counter clockwise position		

Output Logic						
	Output	Output		Output Yellow LED		
Detection			status	status	AC models	
		olatao	models	#1	#2	
Object present	Dark operated (N.O.)	Close	On	Off	On	
	Light operated (N.C.)	Open	Off	On	Off	
Object absent	Light operated (N.C.)	Close	On	Off	On	
	Dark operated (N.O.)	Open	Off	On	Off	

Sensitivity Adjustment

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 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:

or translation in 1999 and the respective for the state of the state o		
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 the sensor and retro-reflector. If the output status changes, adjustment is not required. If the output has not changed proceed to step 4	
4	Decrease the sensitivity by turning the potentiometer counter clockwise until the output changes. If the output has not changed, attempt to move the sensor and retro-reflector further apart or angle the sensor/retro-reflector. Then repeat procedure from step 1.	
5	Remove target object. Check the output status has changed.	