Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Crouzet Switches
PES50E94C

For any questions, you can email us directly:
sales@integrated-circuit.com

PhotoElectric Sensors

50 x 50 x 18 mm Block Style

Auto Calibration / Auto Learn
AC / DC Version
NPN / PNP Version

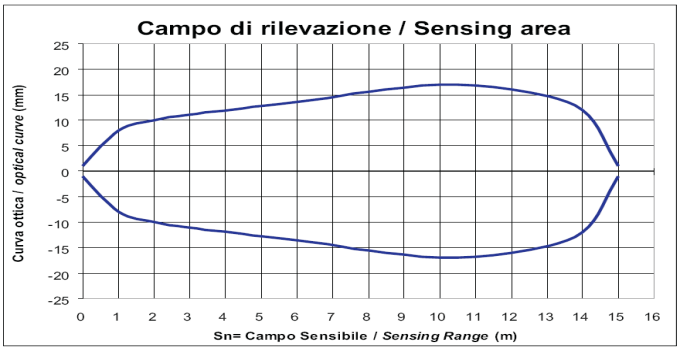
Diffused (Retro-Reflective)
Reflective
Thru - Beam

	2.0 Meter Cable	PES50V84C	PES50E84C	PES50V94C	PES50E94C	-
	M12 Connector	PES50V84M12	PES50E84M12	PES50V94M12	PES50E94M12	-
		Receiver	**Emitter**	**Receiver**	**Emitter**	
	Mating cables / connectors					
	Version	PNP / NPN	PNP / NPN	AC / DC	AC / DC	-
	Nominal Sensing Distance (Sn)	0.2 ~ 15 m		0.2 ~ 15 m		
	Housing Material	ABS	ABS	ABS	ABS	-
	Lens Material	PMMA	PMMA	PMMA	PMMA	-
	Termination Type	Diffused	Diffused	Diffused	Diffused	
	Min / Max Supply Voltage	10 to 30Vdc	10 to 30Vdc	15 to 240V ac/dc	15 to 240V ac/dc	-
	Max. Load Current (Ir)	250mA	250mA	0.5A @ 240Vac	0.5A @ 240Vac	-
	Max ripple factor (Vr)	≤ 10%	≤ 10%	≤ 10%	≤ 10%	-
	Voltage Drop (Ud)	1.5V @ 100mA	1.5V @ 100mA	Relay Output	Relay Output	-
	Power Consumption (Io)	<25 mA	<25 mA	<4mA @ 240Vac	<4mA @ 240Vac	-
	Switching Frequency (Hz)	150 Hz	150 Hz	20 Hz	20 Hz	-
	Emission	Pulsed IR 880nm	Pulsed IR 880nm	Pulsed IR 880nm	Pulsed IR 880nm	-
	Hysteresis	≤ 10% Sn				
	Short Circuit Protection	Yes	Yes	-	-	-
	Reverse Polarity Protection	Yes	Yes	-	-	-
	Operating Temperature (Storage Temperature)	0 to +50 C (-25 to 75 C)				
	IP Rating	IP64				
	Compliance	EN 60947.5.2	EN 60947.5.2	EN 60947.5.2	EN 60947.5.2	

* Sensing distance is defined by a white paper with 90% reflex and dimensions of 200 x 200mm.

Optical Curves

Through Beam



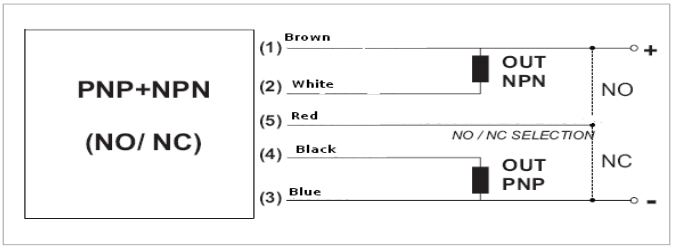
Accessories

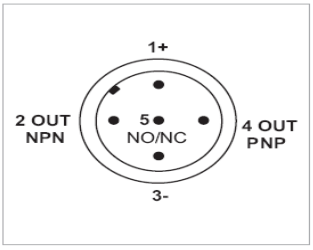
For Technical Assistance and / or Customer Service, call 800/677-5311, www.crouzet-usa.com

PhotoElectric Sensors

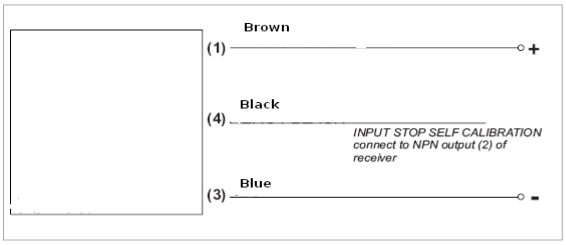
Wiring Diagrams

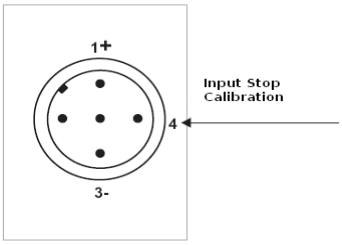
NPN / PNP Wiring **Receiver** NPN / PNP Wiring – M12



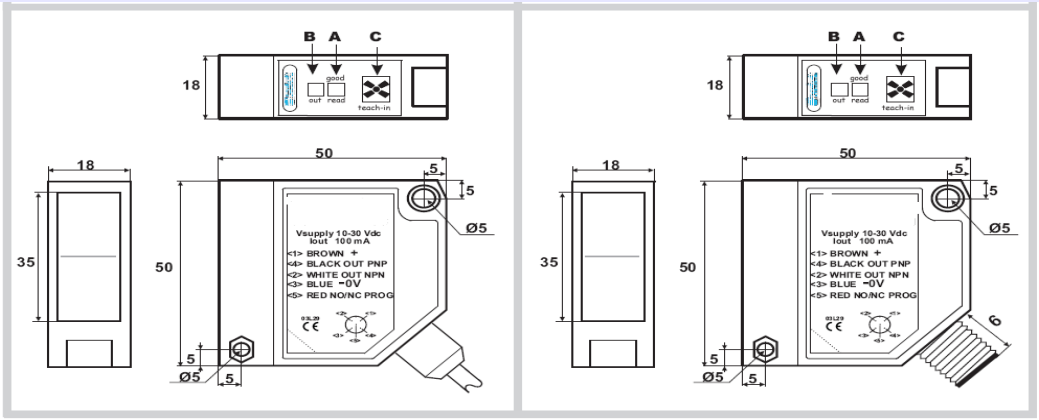


Emitter





Dimensions



A.) Good Detection LED
B.) Output Status LED
C.) "Teach-In" Key for Autocalibration

Calibration – Automatic and Manual

Install the transmitter and receiver in the desired location within the sensing distance specified, The calibration must be void of external noises which may interfere with the calibration. Press and hold the power button for approximately one second. Upon its release, the green LED will blink as the automatic calibration begins. The emission power will increase by three levels. This test can be stopped at any time by pressing the button. The transmitter also has an input which can be grounded to stop the calibration. It can also be connected to the NPN output of the receiver. Please note that in this case, the power supply must be the same for both units.

Manual calibration can be performed at any time by pressing the button for approximately one second. If it is always depressed, Calibration will continue until it is released. Calibration can be done by increasing power emission (solid green LED) or by decreasing (green LED off). To switch from increasing to decreasing, double click the button. In decrease mode, the power will revert to increase after about 15 seconds if no user interatcion. In working mode, when the object enters the detection zone, the yellow LED will turn change its status according to the output and PROG configuration. Conversely, the green LED could be blinking or off according to the objust's position.