OPTIMIZED FOR A WIDE VARIETY OF APPLICATIONS

Universal Power Supply

With both DC and AC/DC models, whatever your application, our Opti-Vue line of sensors has you covered.

These flexible sensors offer a built-in SPDT relay in AC/DC models, and 4-in-1 output in DC models.



"4-in-1" Output

Reduce your inventory by having one sensor replace four with P+F's new "4-in-1" output. The "4-in-1" technology offers a normally open and a normally closed output, which will automatically detect the connected load. A single sensor can operate in NPN normally open, NPN normally closed, PNP normally open or PNP normally closed. No external wiring to select the mode. No potentiometer adjustments for light-on or dark-on. No sinking or sourcing confusion.

Low cost

P+F's most inexpensive AC/DC photoelectric sensor.

Industry standard

The Opti-Vue housing is designed to fit easily into existing mounting brackets.

Opti-Vue sensor with P+F's OMH-RL31-03 bracket

AC DC

DC

Accessories

Simplify your installation with P+F's accessories. From simple mounting solutions to cordsets and reflectors, our broad range of accessories will complement and extend the possibilities of your Opti-Vue photoelectric sensor.





Contact

Pepperl+Fuchs Inc. 1600 Enterprise Parkway Twinsburg, Ohio 44087 · USA Tel. +1 330 486-0001 · Fax +1 330 405-4710 E-mail: fa-info@us.pepperl-fuchs.com

Worldwide Headquarters Pepperl+Fuchs GmbH · Mannheim · Germany E-mail: fa-info@de.pepperl-fuchs.com

USA Headquarters Pepperl+Fuchs Inc. · Twinsburg · USA E-mail: fa-info@us.pepperl-fuchs.com

Asia Pacific Headquarters Pepperl+Fuchs Pte Ltd · Singapore Company Registration no. 199003130E E-mail: fa-info@sg.pepperl-fuchs.com

www.am.pepperl-fuchs.com

Subject to modifications • © 2006 PEPPERL+FUCHS, INC. • Printed in USA • Part No. 910150 12/06 00



ADAPTABLE PHOTOELECTRIC SENSORS











A comprehensive and powerful product line offering four sensing modes and a variety of sensing ranges.

- DIFFUSE: 1.2 meters (3.94 feet)
- **POLARIZED RETRO-REFLECTIVE:** 9 meters (29.53 feet)
- RETRO-REFLECTIVE: 12 meters (39.37 feet)
- THRU-BEAM: 30 meters (98.42 feet)

DIFFERENT OUTPUT CONFIGURATIONS FROM ONE SENSOR

\bigcirc		
ode	Polarized Retro-Reflective Mode	Retro-Reflect
ı	0-9 m	0-12 I
/73c/136	RL31-54/25/73c/136	
9/73c/136	RL31-54/73c/136	
	RL31-54/115/136	
T/31/115		
	RLK31-54/31/115	RLK31-6/3
te test card	FE-RR1 reflector	FE-RR1 ref
	No	No
	Yes (2)	Yes (2
je of 1.2 m	\approx 200 mm at a range of 6 m	≈ 250 mm at 6.
	≈ 3°	≈ 3°

o-Reflective Mode	Thru-Beam Mode
0-12 m	0-30 m
	LV31/25/73c/136
	LV31/73c/136
	LD31/73c/76a
	LV31/115/136
	LD31/76a/115
RLK31-6/31/115	LK31/31/115
	LA31/115
FF DD1 reflector	Dessiver
FE-RRT TEHECIOI	Receiver
No	No
Yes (2)	Yes: transmitter (1), receiver (2)
50 mm at 6.5 m range	\approx 800 mm at a range of 30 m

≈ 0.5° transmitter/≈ 1.5° receiver

Cable

Light On/Dark On

Black N.O. Relay Out White Relay Common

Transmitter (thru-beam models)

AC/DC

Common Specifi	cations		
		DC Models	AC/DC Models
Load Current/Electrical Contact Rating		100 mA max	3 A max.
Voltage Drop		≤ 1.5 VDC	
Short Circuit And Overload Protection		Yes	
Reverse Polarity Protection		Yes	
Supply Voltage		10-30 VDC	24-240VAC/12-240VDC
Voltage Ripple		10%	
Current/Power Consumption		≤ 20 mA	≤ 2 VA
Response Time	Retro-Reflective & Diffuse Mode / Thru-Beam Mode	≤ 1 ms / ≤ 2 ms	≤ 25 ms
Switching Frequency	Retro-Reflective & Diffuse Mode / Thru-Beam Mode	500 Hz / 250 Hz	20 Hz
Light Source		Visible red LED	
Standards		EN 60947-5-2	
Protection (IEC)		IP67	
Ambient Light Resistance		≤ 50,000 lux	
Temperature Range		-22°F to +131°F	
	Storage	-40°F to +158°F	
Housing Material		Plastic	
	Lens	РММА	
Approvals		CE	CULUS

Product Dimensions









NOTE: Sensitivity adjustment on diffuse mode models only

Dimensions (mm)





Normally Oper PNP Output

2 White 3 Blue Load (-)

PNP Output

White Load

Black Control Input*

* Control Input: transmitter deactivated when connected to (-

