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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







## **Information of Discontinued Models**



**Terminal connection type** photoelectric sensor VF2 series

30 Sep 2006 Order cut-off date: Date of production discontinuance: 31 Mar 2007

### **Discontinued models**

**Terminal connection type** photoelectric sensor VF2 series





**%**Confirm that table in

details on model numbers for each type.

### Recommended replacements

**Terminal connection type** multi-voltage photoelectric sensor VF series





Refer to 'Sensor general catalog '03-'04 or SUNX website: http://www.sunx.co.jp/' for details.

## Advantages of switching to recommended replacements

#### Multi-voltage

Because it can function with 24 to 240 V AC or 12 to 240 V DC, which makes it suitable for supply voltages all over the world.

#### **Timer function models**

Equipped with a timer which includes a convenient function for freely changing the sensing signal. It is also suitable for PLC input.

### Notes on using recommended replacements

Recommended replacements	Sensing Specifications		Output circuit	Mounting dimensions	Dimensions	Enclosure color
<b>VF</b> series	0	0	*	0	0	0

- ○: Highly interchangeable ○: Almost no difference \*: Large differences
  - -: No corresponding item or model
- High degree of interchangeability in specifications, mounting dimensions and operability, so that replacement can be carried out smoothly.
- The VF2 series and the VF series have different output circuits.

VF2 series: NPN universal transistor /

PNP open-collector transistor (two outputs)

VF series: Relay contact 1a

## Main points of difference between recommended replacements and discontinued models

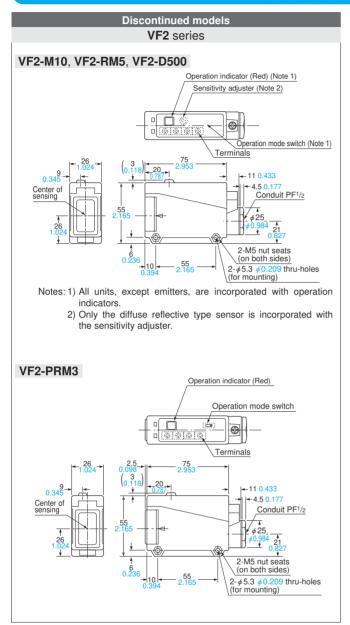
Discontinued models			Recommende	d replacements	Main points of difference from discontinued models				
Thru-beam type			Thru-beam type						
Model No.	Sensing range		Model No.	Sensing range					
VF2-M10	10 m 32.808 ft	-	VF-M10	10 m 32.808 ft	Notes: 1) Favinged times function type				
		-	VF-M10T (Note 1)	10 m 32.808 ft	Notes: 1) Equipped timer function type.				
Retroreflective type			Retroreflective type						
Model No.	Sensing range		Model No.	Sensing range					
<b>VF2-RM5</b> 0.1 to 5	0.1 to 5 m 0.328 to 16.404 ft	-	VF-RM5	0.1 to 5 m 0.328 to 16.404 ft	Notes (2) Equipped times function type				
	0.1 (0 5 111 0.328 (0 16.404 )(	-	VF-RM5T (Note 2)	0.1 to 5 m 0.328 to 16.404 ft	Notes: 2) Equipped timer function type.				
Retroreflective type (With polarizing filters)			Retroreflective type (With polarizing filters)						
Model No.	Sensing range		Model No.	Sensing range					
VF2-PRM3	0.2 to 3 m 0.656 to 9.843 ft	]→	VF-PRM3	0.2 to 3 m 0.656 to 9.843 ft					
<ul> <li>Diffuse reflective</li> </ul>	e type		<ul> <li>Diffuse reflective type</li> </ul>						
Model No.	Sensing range		Model No.	Sensing range					
VF2-D500	500 mm 19.685 in	-	VF-D500	500 mm 19.685 in					
		-	VF-D500T (Note 3)	500 mm 19.685 in	Notes: 3) Equipped timer function type.				
		-	→ <b>VF-D1000</b> 1 m 0.039 ft		rvotes. o/ Equipped timer function type.				
		-	VF-D1000T (Note 3)	1 m 0.039 ft					

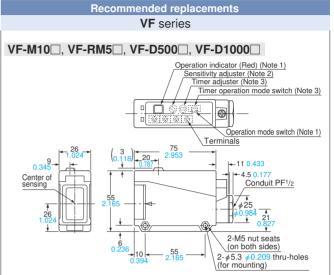




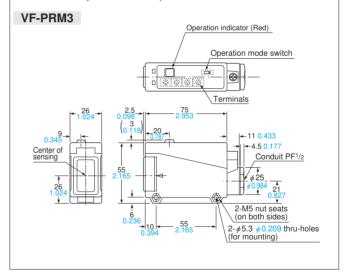
Terminal connection type photoelectric sensor VF2 series

## **Dimensions (Unit: mm in)**





- Notes: 1) All units, except emitters, are incorporated with operation indicators.
  - 2) Only the diffuse reflective type sensor is incorporated with the sensitivity adjuster.
  - Only the timer incorporated type sensors have the timer adjuster and timer operation mode switch.





# **Information of Discontinued Models**

Terminal connection type photoelectric sensor VF2 series

## Main rated specification

		Recommended replacements								
Туре	Inru-beam   Retroreflective   1		With polarizing Diffuse reflective		Thru-beam Retroreflective With polarizing filters		Diffuse reflective			
Item Model No. (Note)	VF2-M10	VF2-RM5	VF2-PRM3	VF2-D500	VF-M10(T)	VF-RM5(T)	VF-PRM3	VF-D500(T)	VF-D1000(T)	
Sensing range	10 m 32.808 ft	0.1 to 5 m 0.328 to 16.404 ft	0.2 to 3 m 0.656 to 9.843 ft	500 mm 19.685 in	10 m 32.808 ft	0.1 to 5 m 0.328 to 16.404 ft	0.2 to 3 m 0.656 to 9.843 ft	500 mm 19.685 in	1 m 3.281 ft	
Sensing object				Opaque, translucent or transparent object	¢ 20 mm ¢ 0.787 in or more opaque object	¢50 mm ¢1.969 in or more opaque or translucent object		Opaque, translucent or transparent object		
Hysteresis	10 % or less of operation distance					_	15 % or less of operation distance			
Supply voltage	12 ± 24	24 to 240 V AC ± 10 % or 12 to 240 V DC ± 10 %								
Sensing output	NPN universal transistor  • Maximum sink current: 100 mA  • Residual voltage: 1 V or less (at 100 mA sink current) 0.4 V or less (at 16 mA sink current) PNP open-collector transistor  • Maximum source current: 100 mA  • Residual voltage: 3 V or less (at 100 mA source current)				Relay contact 1a					
Output operation	Switchable either Light-ON or Dark-ON									
Response time		20 ms or less								
Protection	IP66 (IEC)									
Ambient temperature	- 10 to + 60 °C + 14 to + 140 °F (No dew condensation or icing allowed), Storage: - 20 to + 70 °C − 4 to + 158 °F									
Emitting element			Red LED (modulated)			ed LED Red LED (modulated)		Infrared LED (modulated)		
Material	Enclosure: PBT, Lens: Acrylic (front surface of VF2-PRM3 and VF-PRM3: Triacetate)									
Cable	Suitable for round cable \$\phi 6\$ to \$\phi 10\$ mm \$\phi 0.236\$ to \$\phi 0.394\$ in (Conductor cross section area: 0.25 to 0.75 mm²)									
Weight	Emitter: 70 g approx. Receiver: 85 g approx.		85 g approx.		Emitter: 75 g approx. Receiver: 95 g approx.	5 g approx. leceiver: 95 g approx.				

Note: Models which include 'T' are models with timer.

Refer to 'Sensor general catalog '03-'04 or SUNX website: http://www.sunx.co.jp/' for details.