Information of Discontinued Models



Terminal connection type photoelectric sensor VF2 series

Order cut-off date: 30 Sep 2006

Date of production discontinuance: 31 Mar 2007

Discontinued models

Terminal connection type photoelectric sensor VF2 series





Confirm that table in

Main points of difference between recommended replacements and discontinued models for 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 performance	Specifications	Output circuit	Mounting dimensions Dimensions		Enclosure color
VF series	0	0	*	0	0	0

- ○: Highly interchangeable※: Large differences
- ○: Almost no difference-: 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

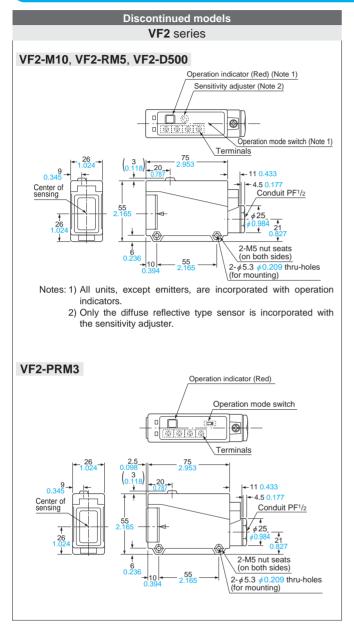
Discontinued models			Recommende	d replacements	Main points of difference from discontinued models				
Thru-beam type			Thru-beam type						
Model No.	Sensing range		Model No.	Sensing range					
VF2-M10	10 m 32.808 ft	-	VF-M10	10 m 32.808 ft	Notes: 1) Equipped timer function type				
		-	VF-M10T (Note 1)	10 m 32.808 ft	Notes: 1) Equipped timer function type.				
Retroreflective type			Retroreflective type						
Model No.	Sensing range	l	Model No.	Sensing range					
VF2-RM5	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 to pe				
		-	VF-RM5T (Note 2)	0.1 to 5 m 0.328 to 16.404 ft	Notes: 2) Equipped timer function type.				
 Retroreflective t 	type (With polarizing filters)	=	Retroreflective type (With polarizing filters)						
Model No.	Sensing range	l	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					
 Diffuse reflective 	e type		Diffuse reflective type						
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.				
		-	VF-D1000	1 m 0.039 ft	Notes. 3) Equipped timer fullction type.				
		-	➤ VF-D1000T (Note 3) 1 m 0.039 ft						

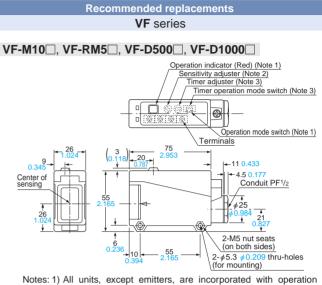




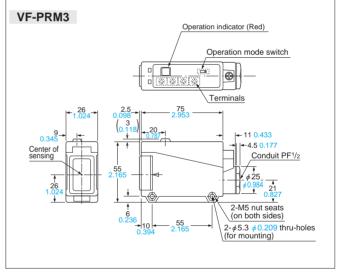
Terminal connection type photoelectric sensor VF2 series

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.









Terminal connection type photoelectric sensor VF2 series

-						
- 1	I O I IO	ratec	010	aaif	001	100
- 11						
-		IGLOC		ouii.		

	Discontinued models				Recommended replacements					
Туре	Thru-beam [Retroreflective] VVII		With polarizing filters	Diffuse Thru-bean reflective		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	1 V DC ± 10 %	Ripple P-P 10 %	or less	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 • Switching capacity: 250 V 1A AC (resistive load) 30 V 2A DC (resistive load) • Electrical life: 500,000 or more switching operations (switching frequency 3,600 (operations/hour • Mechanical life: 100 million or more switching operations (switching frequency 36,000 (operations/hour					
Output operation	Switchable either Light-ON or Dark-ON									
Response time	3 ms or less 20 ms or less									
Protection				IP66	(IEC)					
Ambient temperature	- 10 to +	60 °C + 14 to +	- 140 °F (No dew	v condensation of	or icing allowed	ed), Storage	-20 to + 70	0 °C −4 to −	⊦ 158 °F	
Emitting element	Infrared LED (modulated) Red LED (modulated)			Infrared LED (modulated)	Infrared LED (modulated) Red LED (modulated)		Infrared LED (modulated)			
Material	Enclosure: PBT, Lens: Acrylic (front surface of VF2-PRM3 and VF-PRM3: Triacetate)									
Cable	Suitabl	e for round cabl	e φ6 to φ10 mm	φ 0.236 to φ 0.3	94 in (Condu	uctor cross se	ection area: 0	.25 to 0.75 m	nm²)	
Weight	Emitter: 70 g approx. Receiver: 85 g approx.	Receiver: 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.