

NOTIFICATION of END of LIFE PRODUCT Universal Voltage Sensors V Series

December 18, 2023

To whom it may concern,

OPTEX FA Co., Ltd. appreciates and values your business.

We are announcing

Product Description

V Series Universal Voltage Sensors

Туре		Model			
		No timer function	With timer function		
Universal voltage	Through-beam	VT-4000	VT-4000T		
	Retro reflective	VR-1000	VR-1000T		
	Diffuse reflective	VD-130	VD-130T		
	Diliuse reflective	VD-300	VD-300T		

Туре		Model							
		NF	PN	PN	NPN	PNP			
		No timer	function	No timer	With timer function				
		Terminal block	M12 connector	Terminal block	M12 connector	Terminal	M12		
					WITZ COTTIECTOR	block	connector		
	Through-beam	VT-3000N	VT-3000CN	VT-3000P	VT-3000CP				
DC power	Retro reflective	VR-800N	VR-800CN	VR-800P	VR-800CP				
DC power	Difference mofferetists	VD-100N	VD-100CN	VD-100P	VD-100CP	_	_		
	Diffuse reflective VD		VD-250CN	VD-250P	VD-250P				

Reason for EOL

End of supply of key components

Last Order Acceptance Date

December 31, 2024

Last Shipping Date

June, 2025

Replacement Products

Replacement Freducts			
Discontinued Products	Alternative Proposal		
Universal Voltage Sensors	Universal Voltage Sensors		
V Series	V3/V4 Series		

Replacement Products Model Number

	Туре		Discontinued Models		Alternative Proposal
	Туре	V Series		V3/V4 Series	
	Through-beam		VT-4000	VT-4000	
	Retro reflective	No timer function	VR-1000	→	V4R-1200
	Diffuse reflective	No timer function	VD-130		V4D-200
Universal voltage			VD-300		-
Offiversal voitage	Through-beam		VT-4000T		-
	Retro reflective	With timer function	VR-1000T		-
	Diffuse reflective	with timer function	VD-130T		-
	Diliuse reflective		VD-300T		-
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		Туре			Discontinued Models		Alternative Proposal
		V Series		V3/V4 Series			
	Through-beam	NPN	No timer function	Terminal block	VT-3000N	→	V4T-7000N
	Retro reflective				VR-800N		V4R1200N
	Diffuse reflective				VD-100N		V4D-200N
	Diliuse reliective				VD-250N		V4D-200N
	Through-beam			M12 Connector	VT-3000CN		V3T-7000CN
	Retro reflective				VR-800CN		V3R-1200CN
	Diffuse reflective				VD-100CN		V3D-200CN
DC power	Diliuse reliective				VD-250CN		V3D-200CN
DC power	Through-beam	PNP		Terminal block	VT-3000P		V4T-7000P
	Retro reflective				VR-800P		V4R-1200P
	Diffuse reflective				VD-100P		V4D-200P
	Dilluse reliective		No timer function		VD-250P		V4D-200P
	Through-beam				VT-3000CP		V3T-7000CP
	Retro reflective			M12 Connector	VR-800CP		V3R-1200CP
	Diffuse reflective				VD-100CP		V3D-200CP
	Dilluse reliective				VD-250CP		V3D-200CP

^{*}For details, please see attached sheet or contact OPTEX FA.

Thank you very much for your support for OPTEX FA products.

Sincerely, International Department OPTEX FA Co., Ltd.



Comparison table with alternative proposals

					Discontinue	ed Products		Alternative Proposal			
	Tuno				V Se	eries		V3/V4 Series			
Туре					Universa	l voltage		Universal voltage			
				Through-beam	Retro-reflective	Diffuse-ı	reflective	Through-beam	Retro-reflective	Diffuse-reflective	
	No		Terminal block	VT-4000	VR-1000	VD-130	VD-300	V4T-7000	V4R-1200	V4D-200	
Model	timer fur	nction	Cable	-	-	-	-	V3T-7000	V3R-1200	V3D-200	
	With timer function Terminal block		VT-4000T	VR-1000T	VD-130T	VD-300T	-	-	-		
Sensing	g distanc	e		40 m	0.01 to 10 m*1	1.3 m ^{*2}	3 m ^{*3}	70 m	0.01 to 12 m ^{*1}	0.01 to 2 m ^{*2}	
Light source					Red LED		Infrared LED		Red LED		
Respor	nse time				20 ms	or less			20 ms or less		
Hystere	esis				-	20% (or less	-		20% or less	
Distanc	e adjustr	ment			1-turn pote	entiometer			1-turn potentiometer		
Indicato	ors			Power ind	Output indicato icators for through-	•	r: red LED		put indicator: orange LE bility indicator: green LE		
Control	output			Relay × 1C	*4 240 VAC/30 VDC	C 3 A or less (load	resistance)	Relay × 1C* ⁴ 240 V	AC/30 VDC, 3 A or less	s (load resistance)	
Output	mode				Fixed to I	Light ON			Fixed to Light ON		
Connec	ction type)		Terminal block t	ype (applicable cab	ole outer diameter:	ø6 to ø10 mm),		pplicable cable outer dia type: Cable length: 2 m		
Insulati	on resista	ance			20 MΩ or mo	re (500 VDC)		20) MΩ or more (500 VDC)	
	Supply \	voltage		12 to 24	0 VDC ±10%, 24 to	240 VAC ±10% !	50/60 Hz	24 to 240 VDC	±10%, 24 to 240 VAC ±	10% 50/60 Hz	
Rating	Rating Power consumption			8.5 VA	8.5 VA 5 VA				3 VA or less (Class A) 2 VA or less (Class A) 4 VA or less (Class B) 2.5 VA or less (Class B)		
Applica	ble regul	ations		EMC directive	(2004/108/EC), Lo	w voltage directive	e (2006/95/EC)	EMC directive (2004/108/EC), Low voltage directive (2006/95/EC)			
Applica	ble stand	dards			EN 609	947-5-2		EN 60947-5-2			
Compa	ny stand	ards		Noise resistance: Feilen Level 3 cleared				Noise resistance: Feilen Level 3 cleared			
		Ambient to humidity	emperature/	-25 to +55°C (no freezing)/35 to 85% RH (no condensation)				-25 to +55°C (no freezing)/35 to 85% RH (no condensation)			
		Ambient il	luminance	Sunlight: 10,000 lx or less, Incandescent lamp: 3,000 lx or less				Sunlight: 10,000 lx c	r less, Incandescent lar	mp: 3,000 lx or less	
Environ	nmental	Voltage re	esistance		2700 VA	C/minute			2700 VAC/minute		
resistar		Vibration	resistance		0 to 55 Hz; double ours in each of the	X, Y, and Z direct		2 hours in	Hz; double amplitude 1 each of the X, Y, and Z	directions	
		Shock res	sistance	3 tir	Approx. 50 G mes in each of the		ons	Approx. 50 G (500 m/s ²); 3 times in each of the X, Y, and Z directions			
		Degree of	protection		IP	67			IP67		
Materia	ıl			Housing/Cover: ABS (glass fiber filled), Lens/Lens cover: PMMA				Housing: ABS (glass fiber filled, fire resistant), Front cover: Polycarbonate (retro-reflective type is PMMA)			
	without o			Emitter: 70 g Receiver: 90 g	95.0			Emnitter: Approx. 70 Receiver: Approx. 85 g	Appro	x. 85 g	
Dimensions (mm)		VR, VD - Terminal block type Terminal block type				Cable type Cable type					
				74.5 03.9 Total and control to the						neer e neer	

- *1. With the V-61 reflector
- *2. Using a 200 X 200 mm white sheet of paper.
- *3. Using a 400 $\rm X$ 400 mm white sheet of paper.
- *4. When driving the inductive load (with an induction valve, electromagnetic contactor, etc.) through the relay connection point, please use a noise absorption device (surge absorber).



Comparison table with alternative proposals

Туре					Discontinue	ed Products			Alternative Proposal		
Туре					V Se	eries			V3/V4 Series		
Туре						ower		DC power			
				Through-beam	Retro-reflective	Diffuse-i	Through-beam	Retro-reflective	Diffuse-reflective		
		Na	Terminal block	VT-3000N	VR-800N	VD-100N	VD-250N	V4T-7000N	V4R-1200N	V4D-200N	
		No timer	Cable	-	-	-	-	V3T-7000N	V3R-1200N	V3D-200N	
	NPN	function	Connector	VT-3000CN	VR-800CN	VD-100CN	VD-250CN	V3T-7000CN	V3R-1200CN	V3D-200CN	
		With timer	function	-	-	-	-	-	-	-	
lodel		No	Terminal block	VT-3000P	VR-800P	VD-100P	VD-250P	V4T-7000P	V4R-1200P	V4D-200P	
		timer	Cable	-	-	-	-	V3T-7000P	V3R-1200P	V3D-200P	
	PNP	function	Connector	VT-3000CP	VR-800CP	VD-100CP	VD-250CP	V3T-7000CP	V3R-1200CP	V3D-200CP	
		With timer	function	-	-	-	-	-	-	-	
ensin	g distan	ce		30 m	0.01 to 8 m ^{*1}	1 m ^{*2}	2.5 m*3	70 m	0.01 to 12 m ^{*1}	0.01 to 2 m*2	
ght s	ource				Red LED		Infrared LED		Red LED		
espoi	nse time				1.5 ms or less		5 ms or less		0.5 ms or less		
yster	esis			-		20% (or less	-		20% or less	
istand	ce adjust	tment			1-turn pot	entiometer			1-turn potentiometer		
ndicat				Power ind	Output indicate Output indicate icators for through	or: orange LED,	r: red LED		put indicator: orange LE bility indicator: green LI		
ontro	l output			NPN/I	PNP Open collecto	or Max. 100 mA/30	VDC	NPN/PNP O	pen collector Max. 100	mA/30 VDC	
utput	mode				Light ON/Dark Of	N selection switch		Light (ON/Dark ON selection s	switch	
Connection type				Terminal block ty	ype (applicable cal	ole outer diameter:	: ø6 to ø10 mm),	Terminal block type (applicable cable outer diameter: ø4 to 8 mm) Cable type: Cable length: 2 m, ø3.8, Connector type: M12, 4-pin			
nsulat	ion resis	tance			20 MΩ or mo	re (500 VDC)		20 MΩ or more (500 VDC)			
	Supply	voltage		10	to 30 VDC, includ	ding 10% ripple (p-	-p)	10 to 30 VDC, including 10% ripple (p-p)			
ating	Current	t consumpt	tion		35 mA	or less			35 mA or less		
pplica	able regu	lations			EMC directive	(2004/108/EC)		EM	C directive (2004/108/E	EC)	
pplica	able stan	dards			EN 609	947-5-2		EN 60947-5-2			
ompa	any stanc	dards		N	oise resistance: Fo	eilen Level 3 clear	ed	Noise resistance: Feilen Level 3 cleared			
		Ambient	re/humiditv	-25 to +55°0	C (no freezing)/35	to 85% RH (no co	ndensation)	-25 to +55°C (no fr	reezing)/35 to 85% RH	(no condensation)	
			luminance	Sunlight:	10,000 lx or less,	ncandescent lamp	o: 3,000 lx	Sunlight: 10,000 lx c	or less, Incandescent la	mp: 3,000 lx or less	
nviror		Vibration ı	resistance		0 to 55 Hz; double ours in each of the	•		10 to 55 Hz; double amplitude 1.5 mm; 2 hours in each of the X, Y, and Z directions			
csisia	nce	Shock res	istance	3 tir	Approx. 50 (nes in each of the		ions	Approx. 50 G (500 m/s²); 3 times in each of the X, Y, and Z directions			
		Degree of	protection		IP	67		IP67			
/lateria	al	,		Housing/Cove	r: ABS (glass fibe	filled), Lens/Lens	cover: PMMA	Housing: ABS (glass fiber filled, fire resistant), Front cover: Polycarbonate (retro-reflective type is PMMA)			
Veight	t without	cable		Emitter: 70 g Receiver: 90 g	95 g			Emitter: Approx. 70 g Receiver: Approx.85 g	Appro	эх. 85 g	
imens	sions (m	m)		VT - Terminal block type	•	Connector type		Terminal bcock type	Conne	ector type	
				ACCESSION SERVICES AND ACCESSION ACC				Terrorinal Month Type Lap Off De 10 substance states Output Indicate Investory Distance school rest. 23.5 Type of the state of the			
				VR, VD - Terminal block	ttype	Connector type		Cable type			
				Terminal blook hype (ORGO)CH. searchings 391 (ORGO)CH. searchings 39	E	Commended type 1,000 COST SHOCK SIGN STATE A STATE TO SHOCK SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN		Cudde type Light CH On On and Displace I find the Chipmen Output I find the Chipmen Displace I find the Chipmen Displace I find the Chipmen Displace I find the Chipmen Solution I find the Chipmen Solution I find the Chipmen Light and center Copinion are of sentime. Difference reflection type.	Coderon adjustment Codero		

*1. With the V-61 reflector

^{*2.} Using a 200 $\rm X$ 200 mm white sheet of paper.

^{*3.} Using a 400 X 400 mm white sheet of paper.