

**NO:** REL - 237  
**DATE:** February 2021

**PRODUCT:** G3VM –AY, DY, DY(TR) All Models – MOS FET Relays  
**TYPE:** Discontinuation – Streamline Product Offering

## G3VM –AY, DY, DY(TR) All Models MOS FET Relays – DISCONTINUATION

In an effort to streamline our product offering and focus on popular models of Omron’s line of MOS FET Relays, OMRON will discontinue all models of G3VM –AY, DY, DY(TR) at the end of February 2022. The suggested replacements are listed below, which despite differences in some characteristics, can be considered to be functional equivalents. Please carefully read through this notification and note the differences. The following details will fully explain the discontinuation and suggested replacement considerations; should you have any additional questions, however, please communicate with the Relay Product Manager, Zac Hendrix.

**LAST Order date (Last Time Buy Date)**

**February 28, 2022**

**Product Discontinuation**

MOS FET Relay

Model **G3VM-41AY**  
Model **G3VM-41DY**  
Model **G3VM-41DY(TR)**

Model **G3VM-61AY**  
Model **G3VM-61DY**  
Model **G3VM-61DY(TR)**

Model **G3VM-201AY**  
Model **G3VM-201DY**  
Model **G3VM-201DY(TR)**

Model **G3VM-351AY**  
Model **G3VM-351DY**  
Model **G3VM-351DY(TR)**

Model **G3VM-401AY**  
Model **G3VM-401DY**  
Model **G3VM-401DY(TR)**

Model **G3VM-601AY**  
Model **G3VM-601DY**  
Model **G3VM-601DY(TR)**

**Suggested Replacement**

MOS FET Relay

Model **G3VM-41AY1**  
Model **G3VM-41DY1**  
Model **G3VM-41DY1(TR05)**

Model **G3VM-61AY1**  
Model **G3VM-61DY1**  
Model **G3VM-61DY1(TR05)**

Model **G3VM-201AY1**  
Model **G3VM-201DY1**  
Model **G3VM-201DY1(TR05)**

Model **G3VM-351AY1**  
Model **G3VM-351DY1**  
Model **G3VM-351DY1(TR05)**

Model **G3VM-401AY1**  
Model **G3VM-401DY1**  
Model **G3VM-401DY1(TR05)**

Model **G3VM-601AY1**  
Model **G3VM-601DY1**  
Model **G3VM-601DY1(TR05)**



### Differences from discontinued product:

Suggested replacement Model	Body Color	Dimen -sions	Wire connection	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
Model G3VM-41AY1 Model G3VM-41DY1 Model G3VM-41DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-61AY1 Model G3VM-61DY1 Model G3VM-61DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-201AY1 Model G3VM-201DY1 Model G3VM-201DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-351AY1 Model G3VM-351DY1 Model G3VM-351DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-401AY1 Model G3VM-401DY1 Model G3VM-401DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-601AY1 Model G3VM-601DY1 Model G3VM-601DY1(TR05)	**	**	**	**	**	*	**

- \*\* : Compatible
- \* : The change is a little/Almost compatible
- : Not compatible
- : No corresponding specification

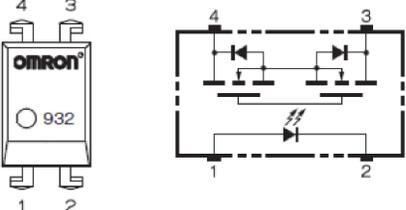
### Details of Applicable Models (Including but not limited to):

Discontinued Product	Suggested Replacement
Model G3VM-41AY	Model G3VM-41AY1
Model G3VM-41DY	Model G3VM-41DY1
Model G3VM-41DY(TR)	Model G3VM-41DY1(TR05)
Model G3VM-61AY	Model G3VM-61AY1
Model G3VM-61DY	Model G3VM-61DY1
Model G3VM-61DY(TR)	Model G3VM-61DY1(TR05)
Model G3VM-201AY	Model G3VM-201AY1
Model G3VM-201DY	Model G3VM-201DY1
Model G3VM-201DY(TR)	Model G3VM-201DY1(TR05)
Model G3VM-351AY	Model G3VM-351AY1
Model G3VM-351DY	Model G3VM-351DY1
Model G3VM-351DY(TR)	Model G3VM-351DY1(TR05)
Model G3VM-401AY	Model G3VM-401AY1
Model G3VM-401DY	Model G3VM-401DY1
Model G3VM-401DY(TR)	Model G3VM-401DY1(TR05)
Model G3VM-601AY	Model G3VM-601AY1
Model G3VM-601DY	Model G3VM-601DY1
Model G3VM-601DY(TR)	Model G3VM-601DY1(TR05)

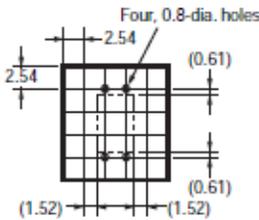
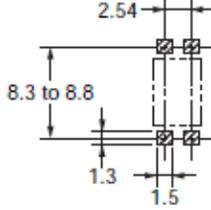
**Body Color:**

Discontinued Product G3VM –AY, DY, DY(TR) / All Models	Suggested Replacement G3VM –AY1, DY, DY1(TR05) / All Models
Black	Black

**Wire Connection:**

Discontinued product G3VM –AY, DY, DY(TR) / All Models	Suggested Replacement G3VM –AY1, DY, DY1(TR05) / All Models
<p>DIP4 (SPST-NO contact type)</p> 	<p>DIP4 (SPST-NO contact type)</p> <p style="text-align: center;">Same</p>

**Mounting Dimensions:**

Discontinued Product G3VM –AY, DY, DY(TR) / All Models		Suggested Replacement G3VM –AY1, DY, DY1(TR05) / All Models	
<p>Through-hole Models (-AY)</p> <p style="text-align: center;">Bottom View</p> 	<p>Surface Mount Models (-DY)</p> <p style="text-align: center;">Top View</p> 	<p>Through-hole Models (-AY1)</p> <p style="text-align: center;">Bottom View</p> <p style="text-align: center;">Same</p>	<p>Surface Mount Models (-DY1)</p> <p style="text-align: center;">Top View</p> <p style="text-align: center;">Same</p>

## Dimensions:

Discontinued Product G3VM –AY, DY, DY(TR) / All Models		Suggested Replacement G3VM –AY1, DY, DY1(TR05) / All Models	
Through-hole Models (-AY)	Surface Mount Models (-DY)	Through-hole Models (-AY1)	Surface Mount Models (-DY1)
		Same	Same

## Characteristics:

Item	Product Discontinuation			Recommended Replacement				
	G3VM-41AY	G3VM-41DY G3VM-41DY(TR)		G3VM-41AY1	G3VM-41DY1 G3VM-41DY1(TR05)			
Type								
Package			DIP4			DIP4		
Contact form			1a(SPST-NO)			1a(SPST-NO)		
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating		Rating	
Input	LED forward current		$I_F$	mA	30		30	
	Repetitive peak LED forward current		$I_{FP}$	A	1		1	
	LED reverse voltage		$V_R$	V	5		5	
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	40		40	
	Continuous load current		$I_O$	mA	2,000		2,000	
Dielectric strength between input and output			$V_{IO}$	Vrms	5,000		5,000	
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40 ~ + 85
Storage Temperature			$T_{stg}$	°C	-55	~	+ 125	-55 ~ + 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min. Typ. Max
Input	LED Forward voltage		$V_F$	V	1.45	1.63	1.75	1.1 1.27 1.4
	Trigger LED Forward Current		$I_{FT}$	mA	0.3	-	2	0.5 - 3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1 - -
Output	Maximum resistance with output ON		$R_{ON}$	$\Omega$	-	0.09	0.15	- 0.09 0.15
	Current leakage when the relay is open		$I_{LEAK}$	$\mu A$	-	-	1	- - 1
	Capacity between terminals		$C_{OFF}$	pF	-	300	-	- 300 -
Capacity between I/O terminals			$C_{IO}$	pF	-	0.8	-	- 0.8 -
Insulation resistance between I/O terminals			$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000 1.00E+08 -
Turn-ON time			$t_{ON}$	ms	-	2	5	- 2.8 5
Turn-OFF time			$t_{OFF}$	ms	-	0.3	1	- 0.3 1

## Characteristics:

Item			Product Discontinuation			Recommended Replacement				
			G3VM-61AY	G3VM-61DY G3VM-61DY(TR)		G3VM-61AY1	G3VM-61DY1 G3VM-61DY1(TR05)			
Type										
Package			DIP4			DIP4				
Contact form			1a(SPST-NO)			1a(SPST-NO)				
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals			
Absolute maximum Rating			Symbol	Unit	Rating		Rating			
Input	LED forward current		$I_F$	mA	30		30			
	Repetitive peak LED forward current		$I_{FP}$	A	1		1			
	LED reverse voltage		$V_R$	V	5		5			
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	60		60			
	Continuous load current		$I_O$	mA	500		500			
Dielectric strength between input and output			$V_{I-O}$	Vrms	5,000		5,000			
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40 ~ + 85		
Storage Temperature			$T_{stg}$	°C	-55	~	+ 125	-55 ~ + 125		
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage		$V_F$	V	1.45	1.63	1.75	1.1	1.27	1.4
	Trigger LED Forward Current		$I_{FT}$	mA	0.3	-	2	0.6	-	3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON		$R_{ON}$	$\Omega$	-	0.6	2	-	0.6	2
	Current leakage when the relay is open		$I_{LEAK}$	$\mu$ A	-	-	1	-	-	1
	Capacity between terminals		$C_{OFF}$	pF	-	130	-	-	130	-
Capacity between I/O terminals			$C_{I-O}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals			$R_{I-O}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time			$t_{ON}$	ms	-	0.5	1	-	1	3
Turn-OFF time			$t_{OFF}$	ms	-	0.2	1	-	0.2	1

## Characteristics:

Item			Product Discontinuation			Recommended Replacement		
			G3VM-201AY	G3VM-201DY G3VM-201DY(TR)		G3VM-201AY1	G3VM-201DY1 G3VM-201DY1(TR05)	
Type								
Package			DIP4			DIP4		
Contact form			1a(SPST-NO)			1a(SPST-NO)		
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating		Rating	
Input	LED forward current		$I_F$	mA	30		30	
	Repetitive peak LED forward current		$I_{FP}$	A	1		1	
	LED reverse voltage		$V_R$	V	5		5	
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	200		200	
	Continuous load current		$I_O$	mA	250		250	
Dielectric strength between input and output			$V_{IO}$	Vrms	5,000		5,000	
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40 ~ + 85
Storage Temperature			$T_{stg}$	°C	-55	~	+ 125	-55 ~ + 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min. Typ. Max
Input	LED Forward voltage		$V_F$	V	1.45	1.63	1.75	1.1 1.27 1.4
	Trigger LED Forward Current		$I_{FT}$	mA	0.3	-	2	0.6 - 3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1 - -
Output	Maximum resistance with output ON		$R_{ON}$	$\Omega$	-	5	8	- 5 8
	Current leakage when the relay is open		$I_{LEAK}$	$\mu A$	-	-	1	- - 1
	Capacity between terminals		$C_{OFF}$	pF	-	90	-	- 90 -
Capacity between I/O terminals			$C_{IO}$	pF	-	0.8	-	- 0.8 -
Insulation resistance between I/O terminals			$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000 1.00E+08 -
Turn-ON time			$t_{ON}$	ms	-	0.5	1	- 1 3
Turn-OFF time			$t_{OFF}$	ms	-	0.2	1	- 0.1 1

## Characteristics:

Item			Product Discontinuation			Recommended Replacement			
			G3VM-351AY	G3VM-351DY G3VM-351DY(TR)		G3VM-351AY1	G3VM-351DY1 G3VM-351DY1(TR05)		
Type									
Package			DIP4			DIP4			
Contact form			1a(SPST-NO)			1a(SPST-NO)			
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals		
Absolute maximum Rating		Symbol	Unit	Rating			Rating		
Input	LED forward current	$I_F$	mA	30			30		
	Repetitive peak LED forward current	$I_{FP}$	A	1			1		
	LED reverse voltage	$V_R$	V	5			5		
Output	Load Voltage(AC/DC)	$V_{OFF}$	V	350			350		
	Continuous load current	$I_O$	mA	100			100		
Dielectric strength between input and output		$V_{IO}$	Vrms	5,000			5,000		
Operating Temperature		$T_a$	°C	-40	~	+ 85	-40	~ + 85	
Storage Temperature		$T_{stg}$	°C	-55	~	+ 125	-55	~ + 125	
Electrical Characteristics		Symbol	Unit	Min.	Typ.	Max	Min.	Typ.	Max
Input	LED Forward voltage	$V_F$	V	1.45	1.63	1.75	1.1	1.27	1.4
	Trigger LED Forward Current	$I_{FT}$	mA	0.3	-	2	0.6	-	3
	Release LED Forward Current	$I_{FC}$	mA	0.1	-	-	0.1	-	-
Output	Maximum resistance with output ON	$R_{ON}$	$\Omega$	-	35	50	-	35	50
	Current leakage when the relay is open	$I_{LEAK}$	$\mu$ A	-	-	1	-	-	1
	Capacity between terminals	$C_{OFF}$	pF	-	30	-	-	30	-
Capacity between I/O terminals		$C_{IO}$	pF	-	0.8	-	-	0.8	-
Insulation resistance between I/O terminals		$R_{IO}$	M $\Omega$	1000	1.00E+08	-	1000	1.00E+08	-
Turn-ON time		$t_{ON}$	ms	-	0.1	1	-	0.3	2
Turn-OFF time		$t_{OFF}$	ms	-	0.2	1	-	0.1	1

## Characteristics:

Item			Product Discontinuation			Recommended Replacement		
			G3VM-401AY	G3VM-401DY G3VM-401DY(TR)		G3VM-401AY1	G3VM-401DY1 G3VM-401DY1(TR05)	
Type								
Package			DIP4			DIP4		
Contact form			1a(SPST-NO)			1a(SPST-NO)		
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating		Rating	
Input	LED forward current		$I_F$	mA	30		30	
	Repetitive peak LED forward current		$I_{FP}$	A	1		1	
	LED reverse voltage		$V_R$	V	5		5	
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	400		400	
	Continuous load current		$I_O$	mA	120		120	
Dielectric strength between input and output			$V_{LO}$	Vrms	5,000		5,000	
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40 ~ + 85
Storage Temperature			$T_{stg}$	°C	-55	~	+ 125	-55 ~ + 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min. Typ. Max
Input	LED Forward voltage		$V_F$	V	1.45	1.63	1.75	1.1 1.27 1.4
	Trigger LED Forward Current		$I_{FT}$	mA	0.3	-	2	0.6 - 3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1 - -
Output	Maximum resistance with output ON		$R_{ON}$	$\Omega$	-	22	35	- 22 35
	Current leakage when the relay is open		$I_{LEAK}$	$\mu A$	-	-	1	- - 1
	Capacity between terminals		$C_{OFF}$	pF	-	80	-	- 80 -
Capacity between I/O terminals			$C_{LO}$	pF	-	0.8	-	- 0.8 -
Insulation resistance between I/O terminals			$R_{LO}$	M $\Omega$	1000	1.00E+08	-	1000 1.00E+08 -
Turn-ON time			$t_{ON}$	ms	-	0.2	1	- 0.6 2
Turn-OFF time			$t_{OFF}$	ms	-	0.2	1	- 0.2 1

## Characteristics:

Item			Product Discontinuation			Recommended Replacement		
			G3VM-601AY	G3VM-601DY G3VM-601DY(TR)		G3VM-601AY1	G3VM-601DY1 G3VM-601DY1(TR05)	
Type								
Package			DIP4			DIP4		
Contact form			1a(SPST-NO)			1a(SPST-NO)		
Terminal structure			PCB Terminals	Surface-mounting Terminals		PCB Terminals	Surface-mounting Terminals	
Absolute maximum Rating			Symbol	Unit	Rating		Rating	
Input	LED forward current		$I_F$	mA	30		30	
	Repetitive peak LED forward current		$I_{FP}$	A	1		1	
	LED reverse voltage		$V_R$	V	5		5	
Output	Load Voltage(AC/DC)		$V_{OFF}$	V	600		600	
	Continuous load current		$I_O$	mA	90		90	
Dielectric strength between input and output			$V_{iO}$	Vrms	5,000		5,000	
Operating Temperature			$T_a$	°C	-40	~	+ 85	-40 ~ + 85
Storage Temperature			$T_{sig}$	°C	-55	~	+ 125	-55 ~ + 125
Electrical Characteristics			Symbol	Unit	Min.	Typ.	Max	Min. Typ. Max
Input	LED Forward voltage		$V_F$	V	1.45	1.63	1.75	1.1 1.27 1.4
	Trigger LED Forward Current		$I_{FT}$	mA	0.3	-	2	0.5 - 3
	Release LED Forward Current		$I_{FC}$	mA	0.1	-	-	0.1 - -
Output	Maximum resistance with output ON		$R_{ON}$	$\Omega$	-	45	60	- 45 60
	Current leakage when the relay is open		$I_{LEAK}$	$\mu$ A	-	-	1	- - 1
	Capacity between terminals		$C_{OFF}$	pF	-	75	-	- 75 -
Capacity between I/O terminals			$C_{iO}$	pF	-	0.8	-	- 0.8 -
Insulation resistance between I/O terminals			$R_{iO}$	M $\Omega$	1000	1.00E+08	-	1000 1.00E+08 -
Turn-ON time			$t_{ON}$	ms	-	0.2	1	- 0.5 2
Turn-OFF time			$t_{OFF}$	ms	-	0.2	1	- 0.2 1

\* Sales teams should communicate this discontinuation with their OEM's and CEM's.  
For further technical support and any questions, please communicate with Product Marketing.

Specifications in this product news are as of the issue date and are subject to change without notice.  
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.

This PCN is intended for use in the Americas  
Last time buy dates are subject to change based on availability