

G2RS Relay Socket

With screw terminals (box-type)

EASY recognition of AC and DC type:

AC relay=red test button + pink coil + red LED

DC relay=blue test button + light blue coil + green LED

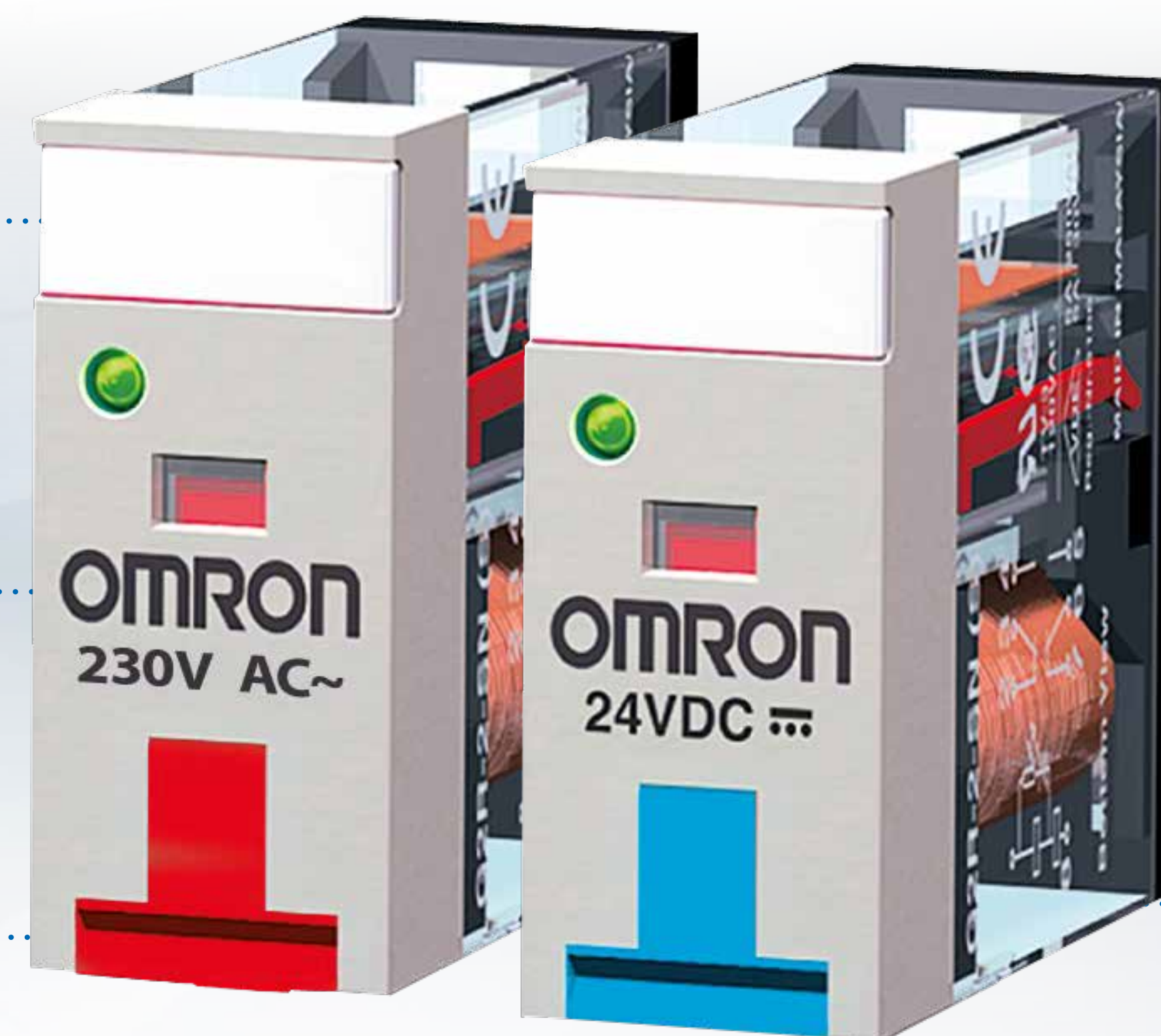
Test Button. Reduce circuit checking time, operation confirmation and inspection work and the protective cover prevent incorrect operation

Mechanical indicator. Linked to contacts to enable operation confirmation

AgSnIn contacts reliable in many high switching applications

Counter-electromotive force protection (built-in diode; DC models only)

Low signal switching (input applications; 3μ Au-plated)



OMRON Relays: outstanding reliability for all application needs

Durable

Long-term electrical and mechanical life: helping to reduce the maintenance frequency



Resistant

Wide ambient operating temperature: reliability for high density mounting and in cold locations



Robust

Robustness against external impacts: reduced malfunctions caused by unexpected external shocks



Accurate

Details that make the difference: full set of sockets and accessories for every need

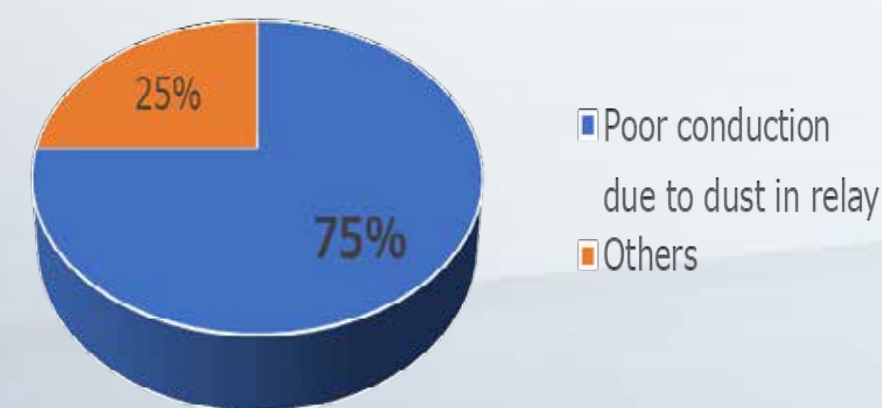


Relay quality

Unique OMRON productions technique

Sometimes machine suffer of unexpected stops but the cause couldn't be identified and when restarted or the relays are replaced, it runs without any problem.

OMRON discovered that this type of issue could be caused by poor conduction in relays.

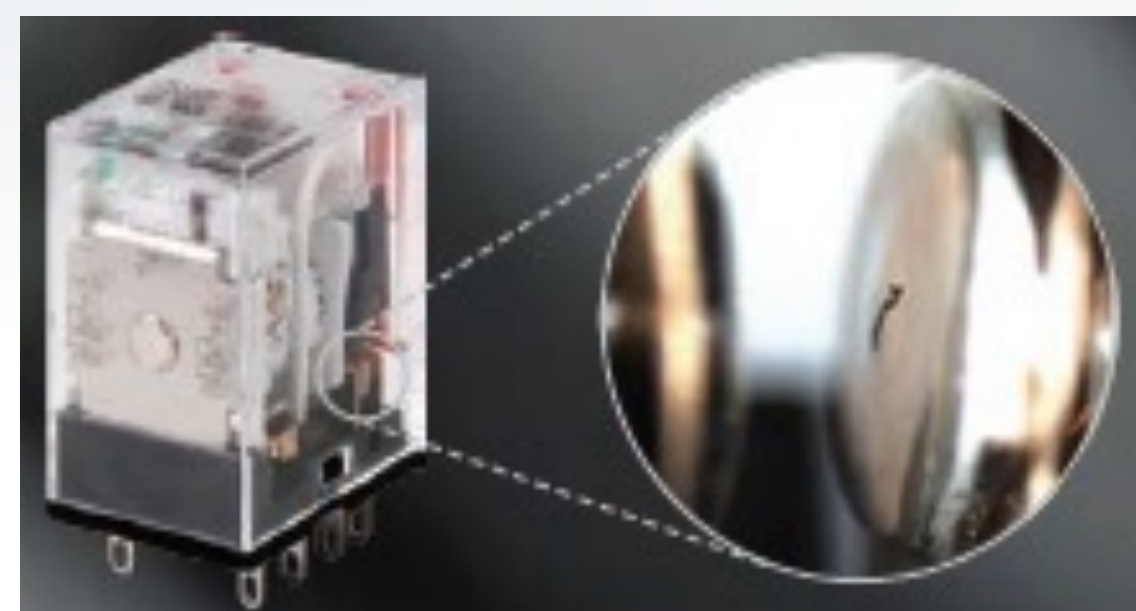


Based on Omron research it has been possible to identify as main cause of relays fault, around the 75% , is related to poor conduction

One of the reasons of the poor conduction in relays is primarily due to the dust caught between the contacts during the production process.

This type of dust is coming from the following environments:

- Resin scrap coming from relay parts
- Textile fibers coming from workers during production



OMRON Solution to avoid poor conduction in relays



1. Avoid the generation of the dust

2. Avoid to introduce dust

3. Avoid to leave dust

OMRON's three commitments for relay production towards improved reliability:

- Avoid the generation of dust by providing standardized design
- Avoid to introduce dust by producing the products in clean room with strict entry/exit control rules
- Avoid to leave dust by utilizing OMRON's unique dust removal technology

G2RS Relay Socket - Product Highlights

G2RV New Design



EASY recognition of AC and DC type:

AC relay=Red test button + pink coil + red LED
DC relay=Blu test button + light blu coil + Green LED

Industrial quality pins



- Larger contact surface for greater conductivity
- No bending during maintenance

Test and Inspection of the relay

- Easy inspection of relay and contacts
- Quick analysis of malfunction and recognition of failures
- Lockable test switch to test panel, machine or system functionality, the protection cover prevents accidental operation



LED indicator and mechanical flag



- Tells you that the relay is working exactly as it should
 - LED indicates that the coil is powered up
 - Mechanical flag indicates movement/position of contacts

Details that makes the difference



MG-CPM-04 harmonized labeling concept
To ease the labelling of the panel MG-CPM label is suitable for different OMRON products among PYF-PU; P2RF-PU / P2RFZ-_; PTF-PU; G2RV-ST and G3RV-ST and also Terminal Blocks XW5_-P

Applications Panel Building in different industries

Wood industry machine



Plastic industry machines



Packaging



Food industry machines



Control Systems for
wind turbines and other
energy sources



G2RS bestseller sockets: P2RFZ and P2RF-PU

Push-in Plus Socket: P2RF_-PU

Harmonized label (MG-CPM-04) available for all Value Design OMRON sockets for G2RV, G2R, MY and LY relays family

Possibility to turn the socket upside down

Push-in Plus technology for easy wiring. No screw loosening for maintenance-free application

The socket can be mounted with the fixture lever close. So now it's **easy to mount** but also to demount thanks to the autonomy of each lever

White movable parts are for a better visibility in dark environments

Screw Socket: P2RFZ_-E

Full-automated production for high quality standards

Reduced dimensions

High visibility of terminal number thanks to laser marking solution


Short bar for easy wiring

Harmonized label (MG-CPM-04)

Finger protection



Din rail sockets for G2R models: P2RF

G2R-1- __- (S) (1 POLES)					
		P2RF-05-ESS	P2RF-05-S	P2RF-05-PU P2RF-05-PU-L	P2RFZ-05-(E)
				<div>Value Design for Panel</div> 	
Terminal type		Screw Rise-up terminal	Screwless clamp	Push-in plus terminals	Screw terminals
Dimension (WxHxD)		7.6 x 77.6 x 61	18 x 92 x 32.6	15.5 x 90 x 52.1	15.5x79.0x61.0
Accessories	Short bar	-	✓	✓	✓
	Release lever with relay holding	✓	-	✓	
	Hold down clip	✓	-		
	Label	✓	✓	✓	
	Module: led + protection	✓	-		
	Separator plate				✓
	End Plate				✓
	Din rail				✓
Description		<ul style="list-style-type: none">• Black• Finger protection IP20	<ul style="list-style-type: none">• Beige	<ul style="list-style-type: none">• Black• Vibration resistance up to 123N• Release lever pre-mounted or plain socket available	<ul style="list-style-type: none">• Black• OMRON full automated produced• Finger protection

Din rail sockets for G2R models: P2RF

G2R-2- __- (S) (2 POLES)					
		P2RF-08-ESS	P2RF-08-S	P2RF-08-PU P2RF-08-PU-L	P2RFZ-08-E
				<div>Value Design for Panel</div> 	
Terminal type		Screw Rise-up terminal	Screwless clamp	Push-in plus terminals	Screw terminals
Dimension (WxHxD)		7.6 x 77.6 x 61	18 x 92 x 32.6	15.5 x 90 x 52.1	15.5x79.0x61.0
Accessories	Short bar	-	✓	✓	✓
	Release lever with relay holding	✓	-	✓	
	Hold down clip	✓	-		
	Label	✓	✓	✓	
	Module: led + protection	✓	-		
	Separator plate				✓
	End Plate				✓
	Din rail				✓
Description		<ul style="list-style-type: none">• Black• Finger protection IP20	<ul style="list-style-type: none">• Beige	<ul style="list-style-type: none">• Black• Vibration resistance up to 123N• Release lever pre-mounted or plain socket available	<ul style="list-style-type: none">• Black• OMRON full automated produced• Finger protection

Available accessories for MY, G2RS, LY and G2RV families

Accessories for usability improvement					
	SHORT BAR	LABELS	SEPARATE AND END PLATE	PLC I/OINTERFACE SYSTEM	PLC CABLE
Items	PYDN	MG-CPM	Separate plate: XW5Z-EP12 End plate: XW5Z-EP6	P2RVC - _ _ _ _ -	XW2Z
Appearance					
Use	Connections for sockets	Marking	Insulation and stability	-	Connector
Applicable products	PYF-PU PTF_-PU G2RV-ST / SRG3RV-ST	PYF-PU P2RF-PU / P2RFZ-_ -E PTF-PU G2RV-ST G3RV-ST	MY G2R-(S) LY G2RV-ST G3RV-ST	G2RV-SRG3RV-ST	G2RV-SRG3RV-ST G70V
Features	<ul style="list-style-type: none"> • Color : Blue, Red, Yellow • Easy cutting • Maximum carry current 32A 	<ul style="list-style-type: none"> • Harmonized concept of labels • Termo-transfer printing with MG3printer* 		<ul style="list-style-type: none"> • Input / OutputPNP/NPN 	OMRON PLC

*The printer for MG-CPM 04 is not sold by OMRON but by Cembre, OMRON partner for marking system, ask to your OMRON contact for more information

Electromechanical relay portfolio

RATED CURRENT

40A

25A

10A

5A

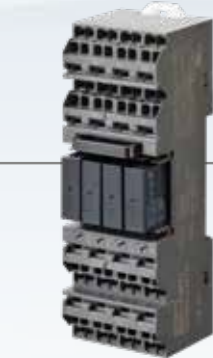
G2RS 10A



G2RVST 6A



G6D-F4PU
5A x 4relays



LY-2 10A



MYGS-2 10A



MK-S 10A



G2RS-2 5A



LY-3 10A



MK-S 10A



G7Z 40A



G7J 25A



LY-4 10A



MYGS-4 6A



1-pole

2-pole

3-pole

4-pole

NUMBER OF POLES

Application specific switching

General load
switching

Control/
sequence
switching