## **IPF** ELECTRONIC

COUPLER RELAY 2400

dimensions

15.4 x 78.6 x 75mm

coupler relay holders accessories change-over contact

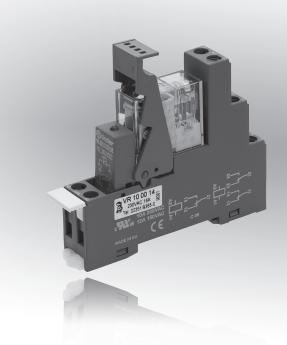
- √ coupler relay in 5mm grid up to 16A
- ✓ authorizations in accordance with VDE, S, SEV, UL, CSA
- ✓ LED display upgradable as a module
- ✓ relay with holders that are addable to DIN rail 35mm (DIN EN 60715 TH35)
- √ holders with robust screw terminals.
- ✓ guaranteed mechanical service life 10<sup>7</sup> operating cycles

1 or 2 change-over contacts switching current 16A or.. 5A









#### description

Relays are electro-magnetic components. A contact is referred to as a normally open or make contact if it is open when an armature has de-energized or a field coil is currentless and closed when an armature is energized or a field coil has current flowing through it.

A contact is referred to as a break or normally closed (nc) contact if it interrupts the power circuit in the energized condition of the relay. A combination of a normally closed (nc) and a normally open (no) contact is referred to as a change-over contact. A relay can have one or more of these contacts.

Relays have a high contact current rating and a high overload capacity, low contact resistance in the  $m\Omega$  range with low

capacity at the same time, high insulation resistance and a high contact gap reverse voltage.

The switching state can often be seen with the naked eye. The complete units are supplied with

holder for top hat rail mounting, strap, label and LED display.

#### application examples

- Electrical isolation of multiple load circuits with only one control current circuit
- Switching of high levels of electrical power
- ▶ Galvanic separation between controlling and switching current circuit

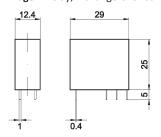
# **EVALUATION SYSTEMS**



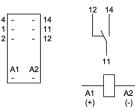


article-no. VR100014 VR1 operating voltage relay output 1x change-over contact 2x change  TECHNICAL DATA  Operating range DC: 0.75 1.5 UN, AC: 0.8 1.1 UN DC: 0.75 1.5 Uny contact 2x change relay output 1x change-over contact 2x change wriston a complete unit 1x components of the contact of	VR100020 24V DC 2x change-over contact		
TECHNICAL DATA  operating voltage relay output  DC: 0.75 1.5 UN, AC: 0.8 1.1 UN  operating range relay output  Ix change-over contact  Teclay			
TECHNICAL DATA  Deperating range  DC: 0.75 1.5 UN, AC: 0.8 1.1 UN  AC: max. 1200 VA: 0.0 VA:	.00024		
TECHNICAL DATA  Operating range  DC: 0.75 1.5 UN, AC: 0.8 1.1 UN  AC: 0.8 1.	BOV AC		
TECHNICAL DATA  Deparating range  DC: 0.75 1.5 UN, AC: 0.8 1.1 UN  DC: 0.75 1.5 UN, AC: 0.8 1.1 UN  Deparating range  elay output  1x change-over contact  complete unit  complete unit  complete unit  deparating voltage  see above  see  witching capacity  AC: max. 4000V A / DC: max. 100W  AC: max. 120V  witching voltage  max. 400V  max. 400V  max. 400V  max. 400V  max. 400V  max. 400V  setsing voltage  contact/winding: 4000veff  contact/winding: 4000veff  contact/winding: 4000veff  contact/winding: 4000veff  dimensions  15.4 x 78.6 x 75mm  15.4	e-over contact		
poperating range  DC: 0.75 1.5 UN, AC: 0.8 1.1 UN  DC: 0.75 1.5 U Complete unit  relay output  1x change-over contact  2x change oversion *  complete unit  compoperating voltage  see above  see witching current  0.05 16A  0.00  AC: max. 4000VA / DC: max. 100W  AC: max. 1250V  switching voltage  max. 400V  max. 400V  max. 400V  max. 400V  response/decay time  <15/20ms  <15/20ms  <1 contact/winding: 4000Veff	mounting bracket LED display		
relay output 1x change-over contact 2x change version * complete unit co	 IN ΔC· 0.8 1.1 IIN		
version * complete unit complete unit complete unit component operating voltage see above sees witching current 0.05 16A 0.00 switching capacity AC: max. 4000VA / DC: max. 100W AC: max. 1250V switching voltage max. 400V max. 415/20ms < 1 DC: min. 2x107 AC: min. 107 operating cycles DC: min. 2x107 AC: min. 2x107 AC: min. 107 operating cycles DC: min.	e-over contact		
witching current  O.05 16A  O.06 max. 4000VA / DC: max. 100W  AC: max. 1250V  avitching voltage  max. 400V  max. 40  max. 400V  max. 400V  max. 400V  max. 400V  max. 400V  max. 40  max. 400V  max. 400V  max. 400V  max. 400V  max. 400V  max. 40  max. 400V  max. 400V  max. 400V  max. 400V  max. 400V  max. 40  max. 400V  max. 400V  max. 400V  max. 400V  max. 400V  max. 40  max. 400V  max. 400V  max. 40  max. 400V  max. 400V  max. 40  max. 400V  max. 40  max. 400V  max. 40  max. 400V  max. 40  max. 400V  max. 40  max. 40  max. 400V	complete unit		
witching current  O.05 16A  O.00 witching capacity  AC: max. 4000VA / DC: max. 100W  AC: max. 1250V witching voltage  esting voltage  contact/winding: 4000Veff  contact/winding: 4	above		
witching capacity  AC: max. 4000VA / DC: max. 100W  witching voltage  max. 400V  max. 4000V  max. 400V  max. 4	05 5A		
esting voltage contact/winding: 4000Veff contact/winding: 4000Veff contact/winding: 45/20ms < 1 perating cycles (min.) DC: min. 2x107 AC: min. 107 operating cycles DC: min. 2x107 AC: min	AC: max. 1250VA / DC: max. 100W		
response/decay time    Complete unit: relay, holder, strap, label and	max. 250V		
pperating cycles (min.)  DC: min. 2x107 AC: min. 107 operating cycles  DC: min. 2x107 AC: rin. 107 operating cycles  DC: min. 2x107 AC: rin. 107 operating cycles  Ted LED  Te	contact/winding: 4000Veff		
display (signal)  red LED  red dimensions  15.4 x 78.6 x 75mm  15.4 x 78.6  material (contacts)  AgCdO  degree of protection (EN 60529)  IP40  connection  terminals	< 15/20ms		
dimensions  15.4 x 78.6 x 75mm  15.4 x 78.6 x	DC: min. 2x107 AC: min. 107 operating cycles		
AgCdO Agree of protection (EN 60529) AgCdO Agree of protection (EN 60529) Apperating temperature Adv +70°C	red LED		
AgCdO Agree of protection (EN 60529) AgCdO Agree of protection (EN 60529) Apperating temperature Adv +70°C	3.6 x 75mm		
Regree of protection (EN 60529)  IP40  Iperating temperature  -40 +70°C  -40  Insulation class  VDE 0110: C250, B380  VDE, S, SEV, UL, CSA among others  VDE, S, SEV, UL  Complete unit: relay, holder, strap, label and	AgNi		
terminals terminals terminals on terminals terminals terminals terminals terminals terminals terminals terminals terminals on the second of th	IP40		
nsulation class  VDE 0110: C250, B380  VDE 0  VDE, S, SEV, UL, CSA among others  VDE, S, SEV, UL  Complete unit: relay, holder, strap, label and	+70°C		
rertification VDE, S, SEV, UL, CSA among others VDE, S, SEV, UL  Complete unit: relay, holder, strap, label and	minals		
Complete unit: relay, holder, strap, label and	VDE 0110: B250		
holder, strap, label and	VDE, S, SEV, UL, CSA among others		
holder, strap, label and			
label and			
LED display (1 piece edell)			

image 1 relay, 1 change-over contact



relay connection



holder connection

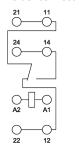
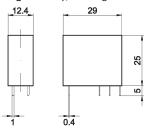
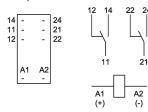


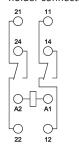
image 2 relay, 2 change-over contacts

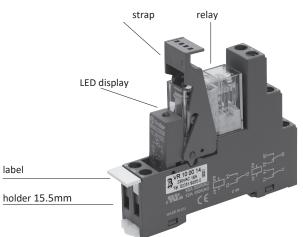


relay connection



holder connection





### ACCESSORIES

ACCESSORIES									
article-no.	description	housing	voltage	output	switching current	connection	figure		
VR100111	relay 5mm grid	plastic	24V DC	1 change-over contact AgCdO	16A	solder/ plug-in connection	1		
VR104111	relay 5mm grid	plastic	230V AC	1 change-over contact AgCdO	16A	solder/ plug-in connection	1		
VR100112	relay 5mm grid	plastic	24V DC	2 change-over i contact AgN	5A	solder/ plug-in connection	2		
VR104112	relay 5mm grid	plastic	230V AC	2 change-over contact AgNi	5A	solder/ plug-in connection	2		
AV000051	holder 15.5 wide addable, DIN rail 35	plastic							
AV000052	strap	plastic							
AV000053	label	plastic							
AV000054	LED display	plastic	24V DC						
AV000055	LED display	plastic	110-230V AC						

Other coil voltages on request!

This data sheet contains only the available standard versions.

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

This data sheet as well as your personal contact can be found at www.ipf-electronic.com

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# **EVALUATION SYSTEMS**

2400 COUPLER RELAY



## **NOTES**

