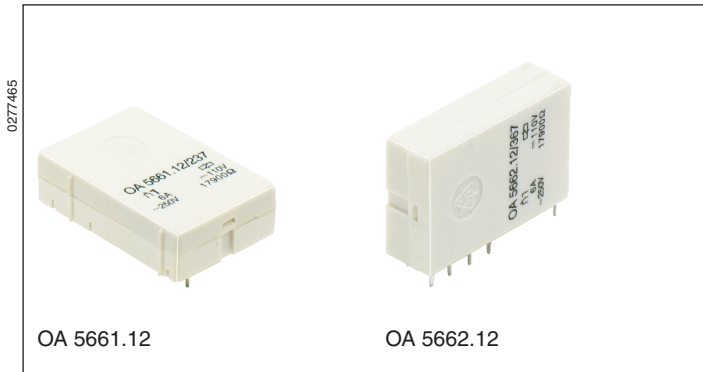


# PCB Relays

## Printed Circuit Board Relays Monostable OA 5661.12, OA 5662.12

Translation  
of the original instructions



- According to DIN EN 61810-1, DIN EN 60664-1
- Low rated power consumption
- 2 changeover contacts
- Clearance and creepage distances:  
Contact - coil  $\geq 8$  mm
- Adjustment to customers specification
- Compact size, small height (at horizontal model)
- OA 5661.12 horizontal mounting
- OA 5662.12 vertical mounting
- Solder line proof

### Applications

- Control technique
- Interface

### Approvals and Markings



### Technical Data

Relay type	OA 5661.12, OA 5662.12
<b>1.0 Relay coil</b>	
1.1 Nominal voltage	DC 6; 12; 20; 24; 48; 60 V (others on request)
1.2 Nominal consumption	0.7 W
1.11 Voltage range	0.7 ... 1.4 U <sub>N</sub>
1.13 Holding power (at 0.5 x U <sub>N</sub> )	0.18 W
<b>2.0 Contacts</b>	
2.1 Contact arrangement	2 changeover contact
2.2 Contact material	AgSnO <sub>2</sub> + 0.2 μm Au; AgNi + 0.2 μm Au
2.3 Rated insulation voltage	AC 250 V
Switching voltage min./max.	AC 2 x 10 V / AC 400 V
2.4 Limiting continuous current I <sub>th</sub>	2 x 6 A (see operating voltage limit curve)
Switching current min./max.	2 x 10 mA <sup>2)</sup> / 8 A <sup>1)</sup>
2.5 Switching power min./max.	2 x 4 VA / 1500 VA
Switching power min./max.	2 x 30 ... 200 W (see limit curve for arc-free operation)
2.6 Switching capacity to IEC/EN 60947-5-1	
AC 15	NC: AC 230 V / 1; NO: AC 230 V / 3 A
DC 13	NC: DC 24 V / 1; NO: DC 24 V / 1 A
to UL 508	B150
2.7 Electrical life	At 1 s On, 1 s Off (see contacts service life)
at AC 230 V, 6 A, cosφ = 1	4 x 10 <sup>5</sup> switching cycles AgNi 10 8 x 10 <sup>5</sup> switching cycles AgSnO <sub>2</sub>
2.8 Switching frequency max.	20 switching cycles/s
2.9 Response time / Release time	Typically 5 ms / Typically 7 ms
2.10 Contact force	> 25 cN / > 10 cN
2.14 Contact gap	> 0.3 mm <sup>2)</sup>
<b>3.0 Other</b>	
3.1 Mechanical life	30 x 10 <sup>6</sup> switching cycles
3.2 Temperature range	- 40 ... + 70 °C
3.3 Degree of protection	Solder line proof RT II
3.5 Vibration resistance	4 g, to max. 100 Hz IEC/EN 60068-2-6
3.6 Climate resistance	40 / 070 / 04 (climate category); A / B / D IEC/EN 60068-1

<sup>1)</sup> Max. 4 s; or. 10 % ED

<sup>2)</sup> Typical values

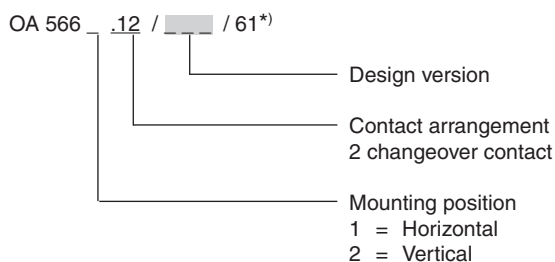
## Technical Data

3.8	Insulation acc. to IEC 60664-1, EN 50178	
	Rated insulation voltage	AC 250 V
	Pollution degree	3
	Oversvoltage category	III
	Test voltage	
	Contact- Coil (1 min)	≥ AC 4 kV eff.
	Contact - Contact (1 min)	≥ AC 2.5 kV eff.
	Transient voltage	
	Contact- Coil (1.2 - 50 μs)	≥ 6 kV
	Clearance and creepage distances	
	Contact- Coil	≥ 8 mm
3.9	Weight	16 g
<b>4.0 Packing</b>		
4.1	In blister	20 pieces
4.2	In case package	200 pieces
<b>5.0 Solder method</b>		
5.1	Solder method /-temperature /-duration	Wave soldering / 260 °C / 5 s

## Design versions

U <sub>N</sub> (DCV)	Voltage range (DC V)	R <sub>Coil</sub> Ω±10%	AgNi10-contacts		AgSnO <sub>2</sub> -contacts	
			OA	OA	OA	OA
			5661.12	5662.12	5661.12	5662.12
6	4.2 ... 8.4	55	231	240	335	341
12	8.4 ... 16.8	220	232	241	336	342
20	14.0 ... 28.0	660	233	242	337	343
24	16.8 ... 33.6	880	234	243	338	344
48	33.6 ... 67.0	3 200	235	244	339	345
60	42.0 ... 84.0	4 700	236	245	340	346

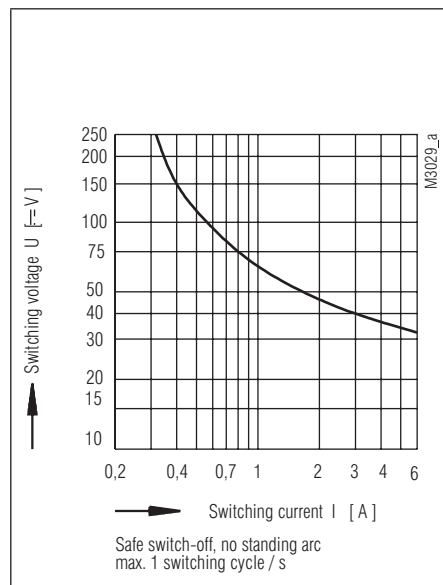
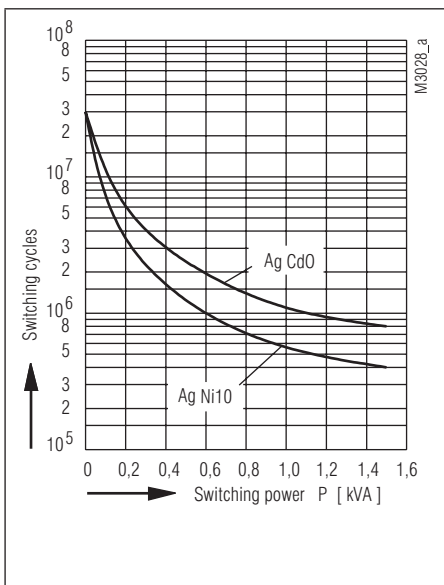
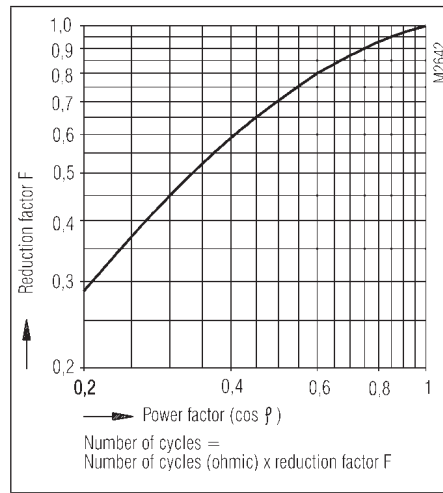
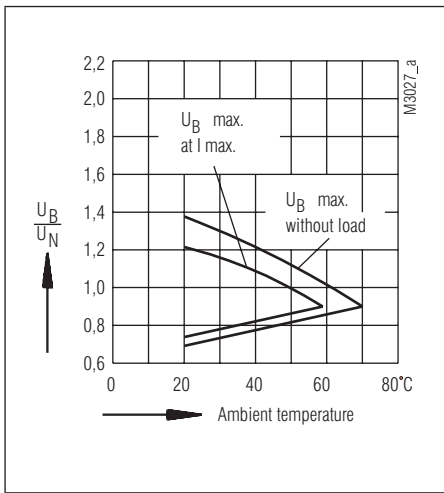
## Ordering Example



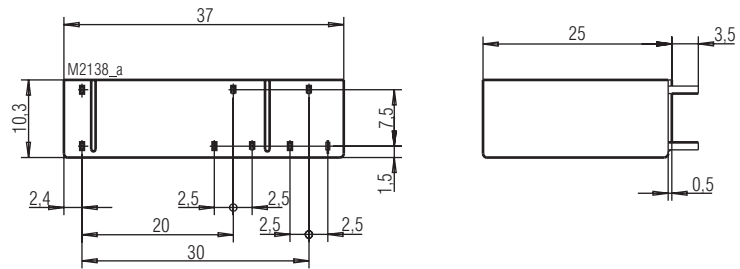
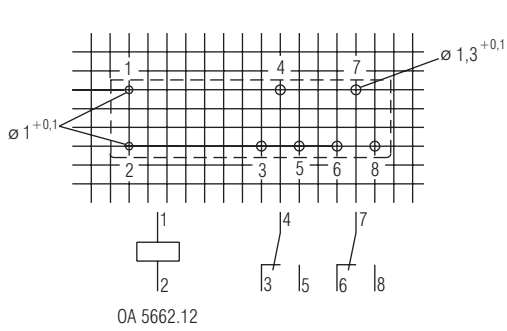
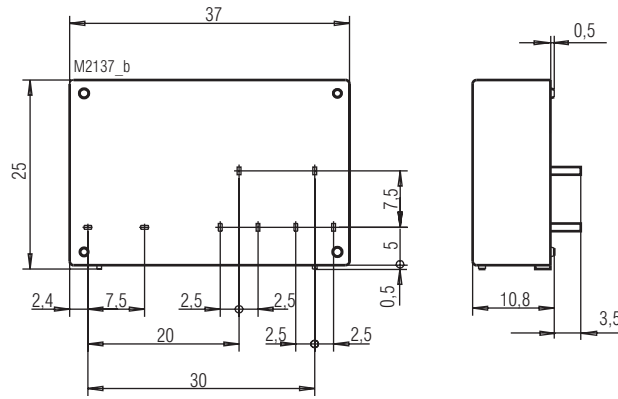
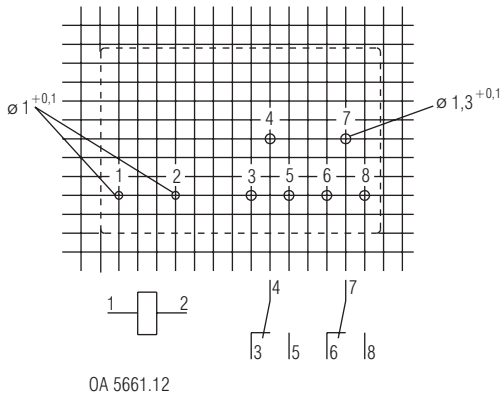
## Notes

For the use and processing of our PCB relays, please refer to the **application and processing instructions** at [www.dold.com](http://www.dold.com)

\*) /61 cURus approval



Drilling plan (solder side)



Connection for basic grid dimensions 2.5 mm as well as 2.54 mm according to IEC/EN 60097 and IEC 60326 average