

### Features

<b>Switching</b>	Random
<b>Input</b>	DC
<b>Output</b>	Transistor for DC voltage
<b>Applications</b>	

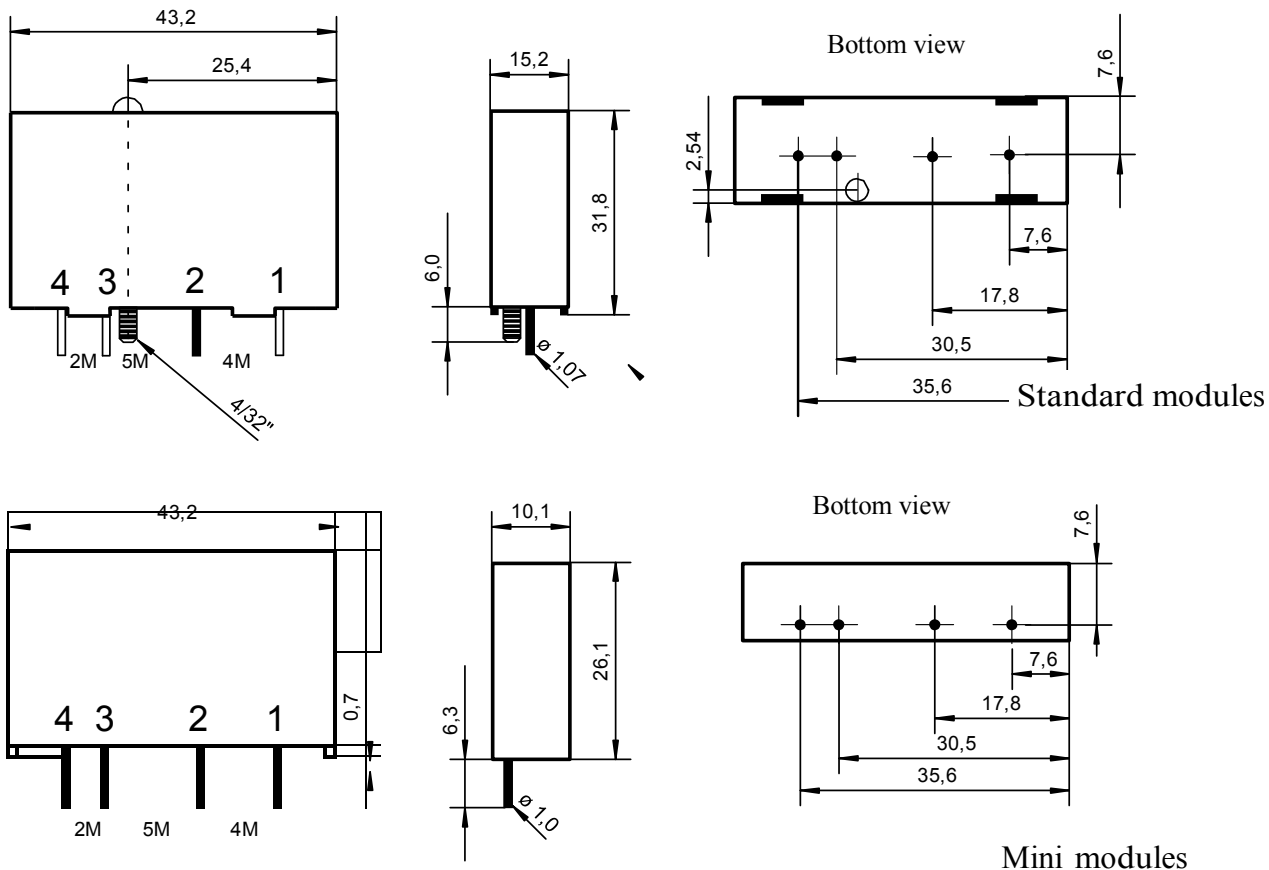
Resistive, inductive, capacitive loads

### Technical data

WG (M) ODC...	5	5A	15	15A	24	24A	5-18
<b>Input circuit</b>							
Control voltage range	2,75...8 VDC		9...18 VDC		18...32 VDC		3...24 VDC
Control current max	32 mA		18 mA		16 mA		24 mA
Turn-off voltage min..	1 VDC		3 VDC		5 VDC		1 VDC
Input resistance	250 Ω		10000		20000		10000
<b>Output Circuit</b>							
Load voltage range	3...60 VDC	5...200 VDC	3...60 VDC	5...200 VDC	3...60 VDC	5...200 VDC	3...60 VDC
Off-state leakage current	1 mA	2 mA	1 mA	2 mA	1 mA	2 mA	1 mA
Load current range	0,01...3 A	0,01...1 A	0,01...3 A	0,01...1 A	0,01...3 A	0,01...1 A	0,01...3 A
Surge current. (1,0s)	5 A	3 A	5 A	3 A	5 A	3 A	5 A
On-state voltage max	1,5 V						
<b>General data</b>							
Turn-on time max.	0,1 ms						
Turn-off time max.	0,1 ms						
PWM frequency max.	250 Hz						
Isolation volt. between input/output	4.000 V						
Isolation resistance	50 MΩ						
Operating temperature	-20...+80 °C						

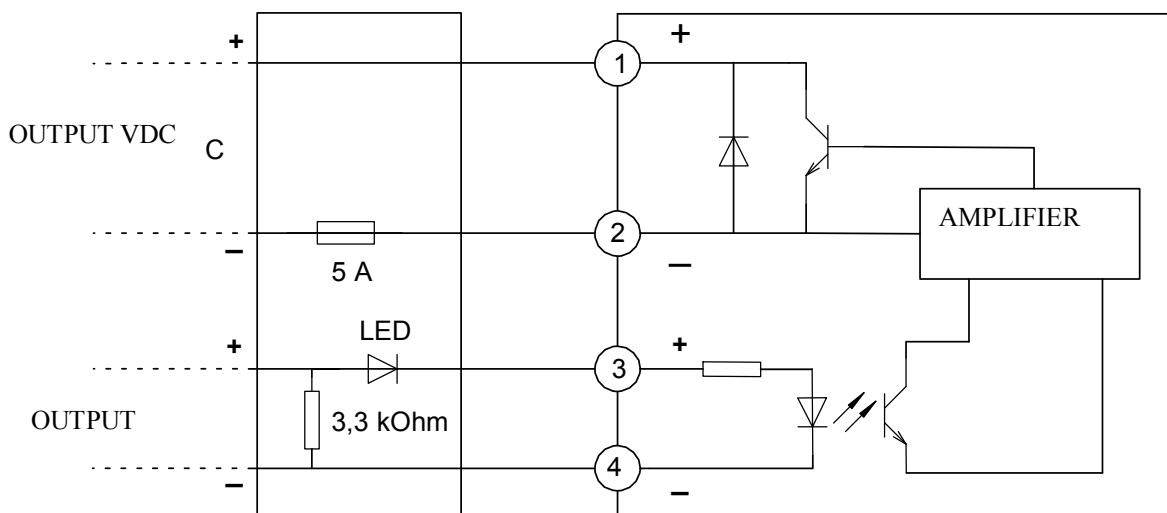
WE RECOMMEND EXTERNAL CONTACT PROTECTION (diode, RC-link) with inductive loads.

### Dimensions in mm & circuit diagram



Mounting bord

Module



### Comments

- 1.) With inductive loads we recommend to use an external protection (RC-circuit, Diode).
- 2.) For the 60 V-types : From ambient temperature  $T_A = +20\text{ }^\circ\text{C}$  to the max. operating temperature of  $80\text{ }^\circ\text{C}$ , the max load current must be decreased with  $38\text{ mA}/^\circ\text{C}$  .
- 3.) For the 200 V-types : From ambient temperature  $T_A = +20\text{ }^\circ\text{C}$  to the max. operating temperature of  $80\text{ }^\circ\text{C}$ , the max load current must be decreased with  $18\text{ mA}/^\circ\text{C}$  .
- 4.) The surge current is defined at  $T_A = +25\text{ }^\circ\text{C}$  and non-repetitive.
- 5.) The max On-state voltage is defined at  $T_A = +25\text{ }^\circ\text{C}$  and max. load current.
- 6.) The turn-on and turn-off times are defined at max. Load voltage, load current and nominal input voltage.

### Housing specifications

Weight	Ca. 130 g (standard-housing) . 75 g (mini-housing)
Housing material	Glass filled polyester
Potting compound	Thermally conductive epoxy
Terminals	Solder pins

### Ordering

Orderingname	Load voltage range	Control voltage range
WG ODC 5	3...60 VDC	2.75-8 VDC
WG ODC 15		9-18 VDC
WG ODC 24		18-32 VDC
WG ODC 5-18		3-24 VDC
WG MODC 5		2.75-8 VDC
WG MODC 15		9-18 VDC
WG MODC 24		18-32 VDC
WG MODC 5-18		3-24 VDC
WG ODC 5A	5...200 VDC	2.75-8 VDC
WG ODC 15A		9-18 VDC
WG ODC 24A		18-32 VDC
WG MODC 5A		2.75-8 VDC
WG MODC 15A		9-18 VDC
WG MODC 24A		18-32 VDC

M: Mini module

A: Input voltage 5-200 VDC