

Features

- 10A switching capacity
- 1 Form A and 1 Form C configurations
- High sensitivity coil available: 200mW
- UL insulation system: Class F
- Accordance with IEC 60335-1 Ed.5
- Small footprint utilizing PCB area
- Outline dimensions 19.8 x 9.9 x 15.2 (in mm)
- Comply with RoHS-Directive 2011/65/EU



Ordering Information

WR11	100	E	24	S	P	C	XXXX
1	2	3	4	5	6	7	8
1. Type:	WR11			5. Protection:		Nil = Flux tight S = Sealed	
2. Configuration:	100 = 1NO 001 = 1CO			6. Material version:		Nil = Standard P = PTI ≥ 175	
3. Contact material:	E = Ag alloy (Cd free)			7. Coil consumption:		Nil = 400mW C = 200mW	
4. Coil code:	5 = 5VDC 9 = 9VDC 12 = 12VDC 24 = 24VDC			8. Special:		XXXX = Letters and / or numbers for special customer design	

Contact Data

Type of contact	Single contact
Configuration	1NO / 1CO
Contact rating	10A / 277VAC
Max. switching power	2800VA
Max. switching voltage	277VAC
Contact resistance	≤100 mΩ
Contact material	Ag alloy (Cd free)

Coil rating standard version (@+23°C)

Rated coil voltage	Coil resistance	Pull-in voltage	Drop-out voltage	Coil power
U_N [VDC]	$R[\Omega] \pm 10\%$	$U_{pull-in}$ [VDC]	$U_{drop-out}$ [VDC]	P_{coil} [W]
5	63	75% or less of Nominal voltage (Initial)	5% or more of Nominal voltage (Initial)	Approx. 0.4
9	202			
12	360			
24	1440			

Coil rating high sensitive version (@+23°C)

Rated coil voltage	Coil resistance	Pull-in voltage	Drop-out voltage	Coil power
U_N [VDC]	$R[\Omega] \pm 10\%$	$U_{\text{pull-in}}$ [VDC]	$U_{\text{drop-out}}$ [VDC]	P_{coil} [W]
5	125	75% or less of Nominal voltage (Initial)	5% or more of Nominal voltage (Initial)	Approx. 0.2
9	405			
12	720			
24	2880			

Specification

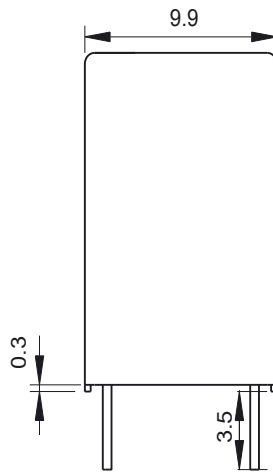
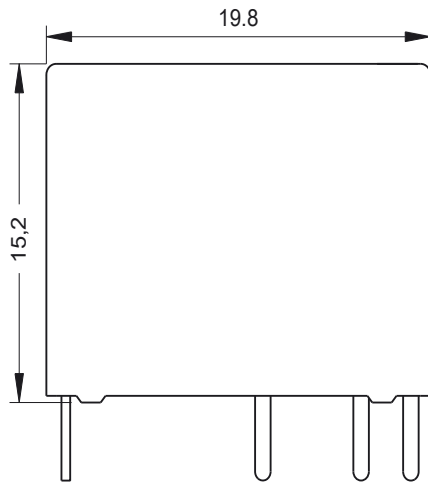
Mechanical life (frequency 18000 Oper./h)	10^6 Oper.
Electrical life	10^5 Oper.
Max. Switching rate at rated load	360 Oper. / h
Operating / Release time	$\leq 20\text{ms}$ / $\leq 10\text{ms}$
Dielectric strength contact / coil	4000VAC _{rms}
Dielectric strength open contacts	1000VAC _{rms}
Surge Resistiveness	5000VAC (1.2/50 μs)
Ambient temperature (no freezing)	-40°C ~ +105°C
Vibration resistance	10~55Hz; double amplitude 1.5mm
Shockresistance 11ms	10G
Dimension	19.8 x 9.9 x 15.2 mm
Weight	Approx. 6g

Safety approval ratings

VDE (Pending)	5A, 277VAC (cos ϕ 0.4), 85°C
	10A, 277VAC, 85°C
UL	5A, 277VAC, 105°C
	10A, 125VAC, 105°C
	1/6HP, 277VAC, 105°C
CQC (Pending)	5A, 277VAC, 105°C
	10A, 277VAC, 105°C

Notes: The data shown above are initial values.

Outline Dimensions (in mm)

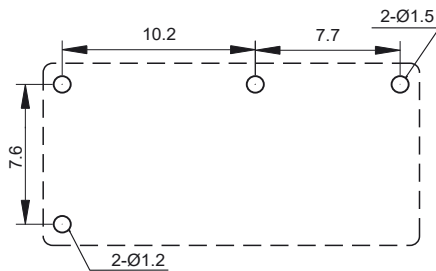


Tolerance :

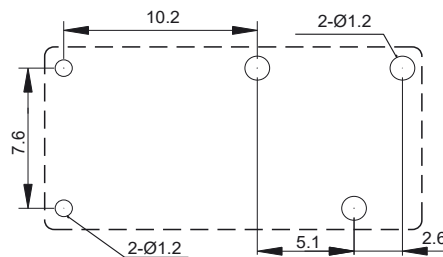
<1mm	±0.2mm
1~5mm	±0.3mm
>5mm	±0.4mm

PC board layout (Bottom view)

form A



form C

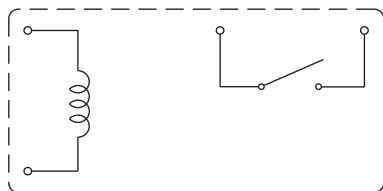


Tolerance :

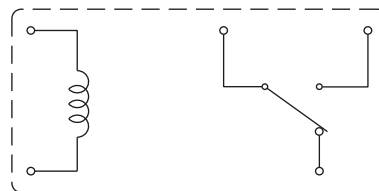
Ptich-row	±0.1mm
Aperture	±0.1mm

Wiring Diagramm (Bottom view)

form A



form C



Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Stangl Components Europe GmbH are reserved.