

# D-SERIES

## Industrial relay modules

Digital signal processing



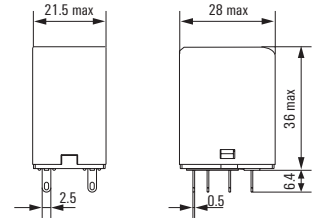


# D-SERIES relay modules

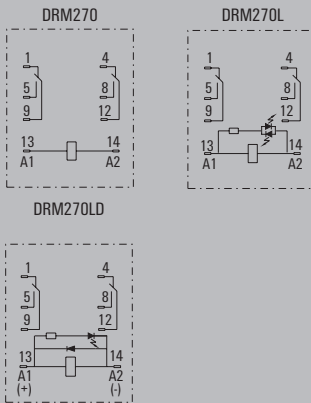
<b>D-SERIES relay modules</b>		
	DRM - Relay modules 2CO, AC/DC coil	4
	DRM - Relay modules 4CO, AC/DC coil	6
	DRM - Accessories	8
	DRL - Relay modules 1CO or 2CO, AC/DC coil	10
	DRL - Relay modules 3CO or 4CO, AC/DC coil	12
	DRL - Accessories	14
	DRW - Relay modules 2CO or 3CO, AC/DC coil	16
	DRH - Relay modules 1NO or 1NC, AC/DC coil	18
	DRH - Relay modules 2NO or 1NO/1NC, AC/DC coil	20
	DRW/DRH - Accessories	22
	DRR - Relay modules 2CO, AC/DC coil	24
	DRR - Relay modules 3CO, AC/DC coil	26
	DRR - Accessories	28
	PWR - Relay modules 1NO, AC/DC coil	30
	PWR - Relay modules 2NO, AC/DC coil	32

**DRM 270 Relay**  
**2 CO, AC/DC coil**

- Small size with high switching power
- Wide coil input voltage range
- Optional test lever (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional suppressor diode

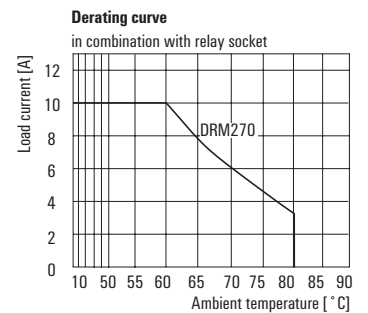
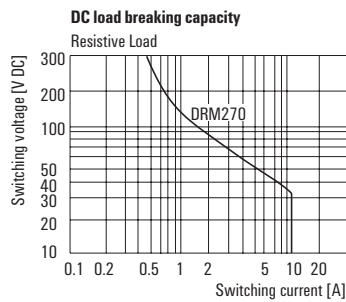
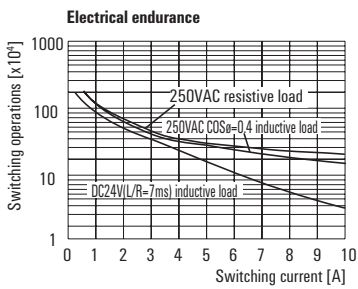


**Circuit diagram**



Output	
Continuous current / Max. switching voltage AC	10 A / 250 V AC
Max. switching power	2500 VA, 300 W
Contact resistance (initial)	≤ 50 mΩ
Min. switching power	12 V / 10 mA or 5 V / 1 mA (hard gold-plated contact)
Contact material	AgNi or AgNi 5µm Au
Electrical endurance / Mechanical endurance	> 25×10 <sup>4</sup> (1800 Ops/h) / > 2×10 <sup>7</sup> (18000 Ops/h)
Switch-on / switch-off delay at rated voltage	≤ 20 ms / ≤ 20 ms
Initial voltage between homopolar contacts / heteropolar contacts / input and output	2000 V AC/1 min / 1000 V AC/1 min / 2000 V AC/1 min (leakage current: 1 mA)
Input	
Response voltage @ 25 °C	DC: ≥ 75 % of rated voltage, AC: ≥ 80 % of rated voltage
Dropout voltage @ 25 °C	DC: ≥ 10 % of rated voltage, AC: ≥ 30 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Insulation resistance	≥ 1000 MΩ
Coil power consumption	DC: ≤ 0.9 W, AC: 1.2 VA
General	
Ambient temperature	DC: -40 °C...+60 °C, AC: -40 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Humidity	35 %~85 % RH
Atmospheric pressure	86-106 KPa
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm 10~55 Hz
Weight	35 g
Packing unit	20 pcs
Approvals	cURus, TÜV
Dimension	
Depth x Width x Height	mm 36 / 21.5 / 28
Note	

**Applications**



**DRM 270 Relay  
2 CO AC/DC coil**

Type code		DRM					
Type	DRM						
Type of construction	270 2 change over contact						
Coil voltage	006	6 V DC / 012	12 V DC				
	024	24 V DC / 048	48 V DC				
	110	110 V DC / 220	220 V DC				
	524	24 V AC / 548	48 V AC				
	615	115 V AC / 730	230 V AC				
LED	L (Red for AC coil; green for DC coil)						
Test lever	T (Red for AC coil; green for DC coil)						
Suppressor diode	D						

**Ordering data**

Input	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
Rated current	75 mA	36.9 mA	18.5 mA	10 mA	5.2 mA
Coil resistance	160 Ω ±10 %	650 Ω ±10 %	2,600 Ω ±10 %	11,000 Ω ±10 %	44,000 Ω ±10 %
Response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Max. voltage	13.2 V	26.4 V	52.8 V	121.0 V	242 V
Power consumption	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W

Ordering data						
Standard	Type	DRM270012	DRM270024	DRM270048	DRM270110	DRM270220
	Order No.	<b>7760056050</b>	<b>7760056051</b>	<b>7760056052</b>	<b>7760056053</b>	<b>7760056054</b>
With LED	Type	DRM270012L	DRM270024L	DRM270048L	DRM270110L	DRM270220L
	Order No.	<b>7760056059</b>	<b>7760056060</b>	<b>7760056061</b>	<b>7760056062</b>	<b>7760056063</b>
With LED and test lever	Type	DRM270012LT	DRM270024LT	DRM270048LT	DRM270110LT	DRM270220LT
	Order No.	<b>7760056068</b>	<b>7760056069</b>	<b>7760056070</b>	<b>7760056071</b>	<b>7760056072</b>
With LED and suppressor diode	Type		DRM270024LD			
	Order No.		<b>7760056077</b>			
With LED, gold plated contact	Type		DRM270024L Au			
	Order No.		<b>7760056183</b>			
With LED and test lever, gold plated contact	Type		DRM270024LT Au			
	Order No.		<b>7760056185</b>			
Note						

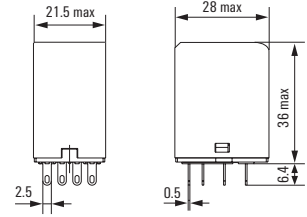
**Ordering data**

Input	24 V AC 2CO	48 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current (50 Hz / 60 Hz)	62.4 mA/52.2 mA	33.3 mA/27.8 mA	12.6 mA/10.8 mA	6.1 mA/5.2 mA
Coil resistance	160 Ω ±10 %	600 Ω ±10 %	3,750 Ω ±10 %	16,000 Ω ±10 %
Response / dropout voltage	19.2 V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Max. voltage	26.4 V	52.8 V	126.5 V	253 V
Power consumption	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)

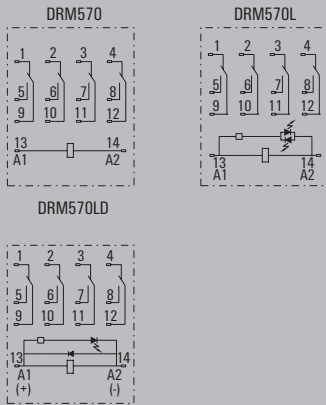
Ordering data					
Standard	Type	DRM270524	DRM270548	DRM270615	DRM270730
	Order No.	<b>7760056055</b>	<b>7760056056</b>	<b>7760056057</b>	<b>7760056058</b>
With LED	Type	DRM270524L	DRM270548L	DRM270615L	DRM270730L
	Order No.	<b>7760056064</b>	<b>7760056065</b>	<b>7760056066</b>	<b>7760056067</b>
With LED and test lever	Type	DRM270524LT	DRM270548LT	DRM270615LT	DRM270730LT
	Order No.	<b>7760056073</b>	<b>7760056074</b>	<b>7760056075</b>	<b>7760056076</b>
With LED, gold plated contact	Type				DRM270730L Au
	Order No.				<b>7760056184</b>
With LED and test lever, gold plated contact	Type				DRM270730LT Au
	Order No.				<b>7760056186</b>
Note					

**DRM 570 Relay**  
**4 CO AC/DC coil**

- Small size with high switching power
- Wide coil input voltage range
- Optional test lever (AC red, DC blue)
- Optional status LED (AC red, DC green)
- Optional suppressor diode

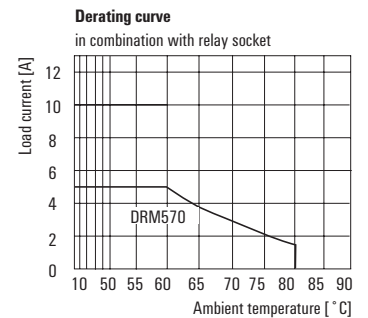
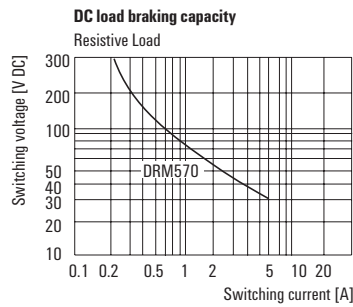
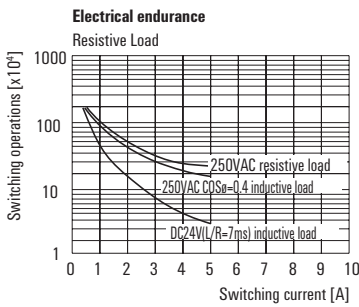


**Circuit diagram**



<b>Output</b>	
Continuous current / Max. switching voltage AC	10 A / 250 V AC
Max. switching power	2500 VA, 300 W
Contact resistance (initial)	≤ 50 mΩ
Min. switching power	12 V / 10 mA or 5 V / 1 mA (hard gold-plated contact)
Contact material	AgNi or AgNi 5µm Au
Electrical endurance / Mechanical endurance	> 25×10 <sup>4</sup> (1800 Ops/h) / > 2×10 <sup>7</sup> (18000 Ops/h)
Switch-on / switch-off delay at rated voltage	≤ 20 ms / ≤ 20 ms
Initial voltage between homopolar contacts / heteropolar contacts / input and output	2000 V AC/1 min / 1000 V AC/1 min / 2000 V AC/1 min (leakage current: 1 mA)
<b>Input</b>	
Response voltage @ 25 °C	DC: ≥ 75 % of rated voltage, AC: ≥ 80 % of rated voltage
Dropout voltage @ 25 °C	DC: ≥ 10 % of rated voltage, AC: ≥ 30 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Insulation resistance	≥ 1000 MΩ
Coil power consumption	DC: ≤ 0.9 W, AC: 1.2 VA
<b>General</b>	
Ambient temperature	DC: -40 °C...+60 °C, AC: -40 °C...+55 °C
Storage temperature	-40 °C...+70 °C
Humidity	35 % ~85 % RH
Atmospheric pressure	86-106 KPa
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm 10~55 Hz
Weight	35 g
Packing unit	20 pcs
Approvals	cURus, TÜV
<b>Dimension</b>	
Depth x Width x Height	mm 36 / 21.5 / 28
<b>Note</b>	

**Applications**



**DRM 570 Relay  
4 CO AC/DC coil**

Type code		DRM					
Type	DRM						
Type of construction	570 4 change over contact						
Coil voltage	006	6 V DC / 012	12 V DC				
	024	24 V DC / 048	48 V DC				
	110	110 V DC / 220	220 V DC				
	524	24 V AC / 548	48 V AC				
	615	115 V AC / 730	230 V AC				
LED	L (Red for AC coil; green for DC coil)						
Test lever	T (Red for AC coil; green for DC coil)						
Suppressor diode	D						

**Ordering data**

Input	12 V DC 4CO	24 V DC 4CO	48 V DC 4CO	110 V DC 4CO	220 V DC 4CO
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
Rated current (50 Hz / 60 Hz)	75 mA	36.9 mA	18.5 mA	10 mA	5.2 mA
Coil resistance	160 Ω ±10 %	630 Ω ±10 %	2,600 Ω ±10 %	11,000 Ω ±10 %	42,000 Ω ±10 %
Response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Max. voltage	13.2 V	26.4 V	52.8 V	121.0 V	242 V
Power consumption	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W

Ordering data						
Standard	Type	DRM570012	DRM570024	DRM570048	DRM570110	DRM570220
	Order No.	<b>7760056078</b>	<b>7760056079</b>	<b>7760056080</b>	<b>7760056081</b>	<b>7760056082</b>
With LED	Type	DRM570012L	DRM570024L	DRM570048L	DRM570110L	DRM570220L
	Order No.	<b>7760056087</b>	<b>7760056088</b>	<b>7760056089</b>	<b>7760056090</b>	<b>7760056091</b>
With LED and test lever	Type	DRM570012LT	DRM570024LT	DRM570048LT	DRM570110LT	DRM570220LT
	Order No.	<b>7760056096</b>	<b>7760056097</b>	<b>7760056098</b>	<b>7760056099</b>	<b>7760056100</b>
With LED and suppressor diode	Type		DRM570024LD			
	Order No.		<b>7760056105</b>			
With LED, gold plated contact	Type		DRM570024L Au			
	Order No.		<b>7760056187</b>			
With LED and test lever, gold plated contact	Type		DRM570024LT Au			
	Order No.		<b>7760056189</b>			
Note						

**Ordering data**

Input	24 V AC 4CO	48 V AC 4CO	115 V AC 4CO	230 V AC 4CO
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
Rated current (50 Hz / 60 Hz)	62.4 mA/52.2 mA	33.3 mA/27.8 mA	12.6 mA/10.8 mA	6.1 mA/5.2 mA
Coil resistance	160 Ω ±10 %	615 Ω ±10 %	4,340 Ω ±10 %	15,000 Ω ±10 %
Response / dropout voltage	19.2 V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Max. voltage	26.4 V	52.8 V	126.5 V	253 V
Power consumption	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)	1.0~1.2 VA(60 Hz)

Ordering data					
Standard	Type	DRM570524	DRM570548	DRM570615	DRM570730
	Order No.	<b>7760056083</b>	<b>7760056084</b>	<b>7760056085</b>	<b>7760056086</b>
With LED	Type	DRM570524L	DRM570548L	DRM570615L	DRM570730L
	Order No.	<b>7760056092</b>	<b>7760056093</b>	<b>7760056094</b>	<b>7760056095</b>
With LED and test lever	Type	DRM570524LT	DRM570548LT	DRM570615LT	DRM570730LT
	Order No.	<b>7760056101</b>	<b>7760056102</b>	<b>7760056103</b>	<b>7760056104</b>
With LED, gold plated contact	Type				DRM570730L Au
	Order No.				<b>7760056188</b>
With LED and test lever, gold plated contact	Type				DRM570730LT Au
	Order No.				<b>7760056190</b>
Note					

Accessories for DRM relays



Ordering data

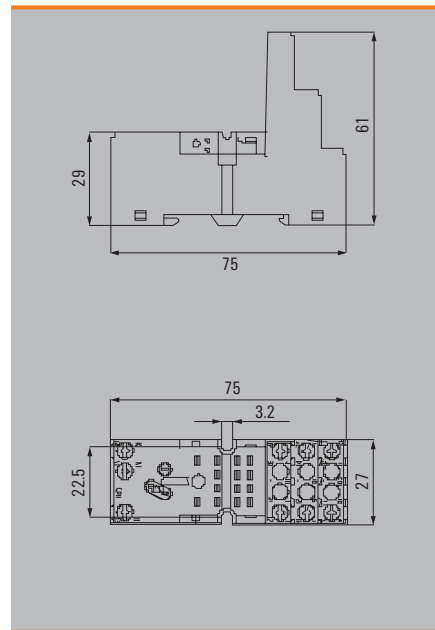
Technical data	
Rated current	2CO/4CO
Rated voltage	300 V AC
Dielectric strength for input - output	>4000 Vrms
Insulating material group (VDE 0110b)	C / 250 V AC
Ambient temperature	-40...+70 °C
Protection class	IP 20
Wire cross section / with wire end ferrule	2 x 2.5 mm <sup>2</sup> / 2 x 1.5 mm <sup>2</sup>
Max. torque	0.5 Nm / 0.8 Nm
Packing unit	10 pcs.
Description	
Socket, snaps onto DIN-rail, 2CO	
Socket, snaps onto DIN-rail, 4CO	

4 x 6 A, 2 x 12 A	
300 V AC	
>4000 Vrms	
C / 250 V AC	
-40...+70 °C	
IP 20	
2 x 2.5 mm <sup>2</sup> / 2 x 1.5 mm <sup>2</sup>	
0.5 Nm / 0.8 Nm	
10 pcs.	
Type	Order No.
SCM ECO 2CO	7760056263
SCM ECO 4CO	7760056264

Metal clip (recommended in applications with vibrations)

Type	Order No.
DRM clip M (for DRM relay)	7760056108

Dimensions in mm



Ordering data

Technical data	
Rated current	2CO/4CO
Rated voltage	300 V AC
Dielectric strength for input - output	2500 Vrms
Dielectric strength between the contacts	2500 Vrms
Max. torque	0.5 Nm/0.8 Nm
Wire cross section	0.5-2.5 mm <sup>2</sup>
Ambient temperature (operational)	-40 °C...+70 °C
Weight	35 g/43 g
Packing unit	20 pcs
Description	
Socket, snaps onto DIN-rail, 2CO	
Socket, snaps onto DIN-rail, 4CO	

12 A/10 A		
300 V AC		
2500 Vrms		
2500 Vrms		
0.5 Nm/0.8 Nm		
0.5-2.5 mm <sup>2</sup>		
-40 °C...+70 °C		
35 g/43 g		
20 pcs		
Type	Qty.	Order No.
FS 2CO*	10	7760056106
FS 4CO	10	7760056107

\* Functional module is not suitable for this type of sockets.

Metal clip (recommended in applications with vibrations)

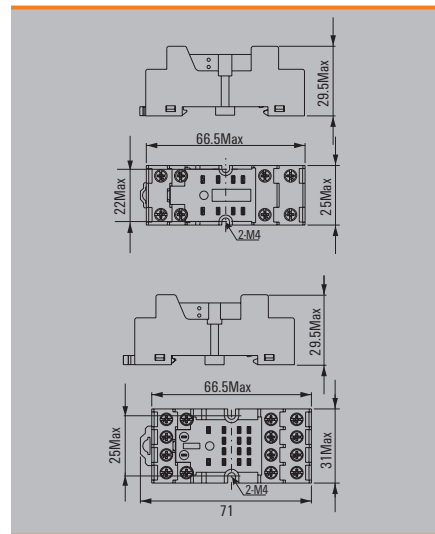
Type	Order No.
DRM clip M (for DRM relay)	7760056108

Functional modules

Technical data	
Suppressor diode 6...230 V DC	
RC-combined protection 110...230 V AC	
RC-combined protection 110...230 V AC with LED	
Green LED 6...24 V DC with suppressor diode	
Green LED 24...60 V DC with suppressor diode	
Green LED 110...230 V DC with suppressor diode	
Green LED 6...24 V DC / V AC	
Green LED 24...60 V DC / V AC	
Green LED 110...230 V DC / V AC	
Not for FS 2CO socket	

Type	Order No.
RIM 1 6/230 V DC	7760056169
RIM 3 110/230 V AC	7760056014
RIM 3 110/230 V AC LED	7760056045
RIM 2 6/24 V DC	7760056015
RIM 2 24/60 V DC	7760056016
RIM 2 110/230 V DC	7760056017
RIM 3 6/24 V UC	7940018457
RIM 3 24/60 V UC	7760056018
RIM 3 110/230 V UC	7940018455

Dimensions in mm



DRM clip M





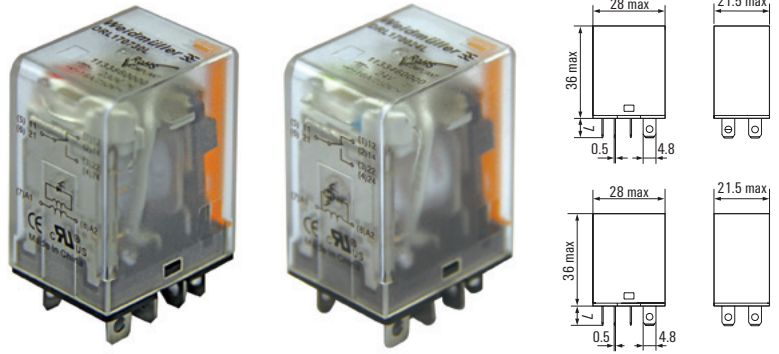


**DRL Power Relay**

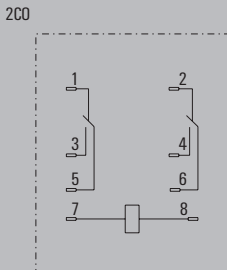
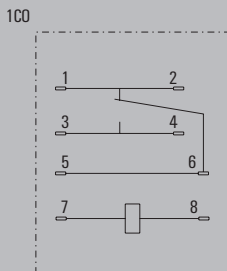
**1CO AC/DC coil**

**2CO AC/DC coil**

- High wear resistivity for AC loads
- High dielectric strength: 2,000 V

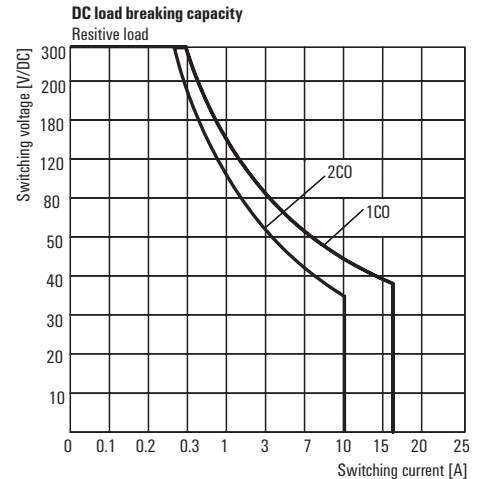
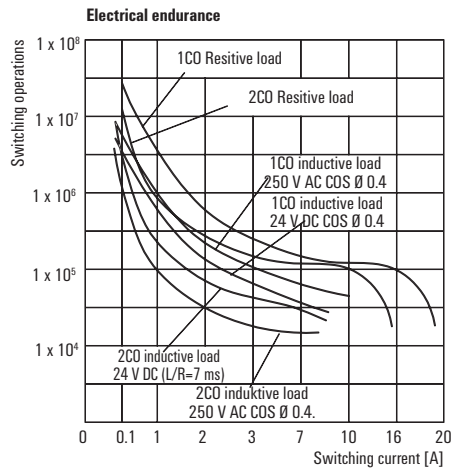
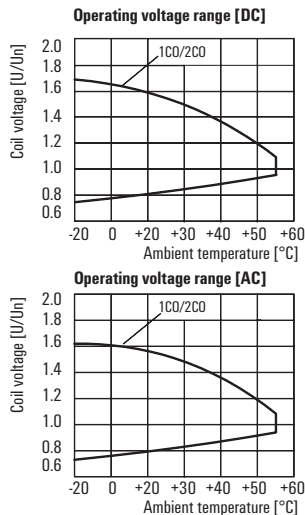


**Circuit diagram**



Output	
Max. switching voltage	250 V AC
Continuous current	16 A @ 1CO / 10 A @ 2CO
Contact material	AgCdO
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 20 ms / < 20 ms
Input	
Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	1.2 VA / 0.9 W
General	
Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 2000 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; UL
Weight	35 g
Packing unit	20 pcs
Dimension	
Depth x Width x Height	mm 36 / 21.5 / 28
Note	

**Applications**



**DRL Power Relay**  
**1CO AC/DC coil**  
**2CO AC/DC coil**

Type code	DRL			
Type	DRL			
Type of construction	170 1 change over contact			
	270 2 change over contacts			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	615 115 V AC / 730 230 V AC			
LED indicator	L			

**Ordering data**

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
<b>Input</b>					
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
Response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Power consumption	0.9 W	0.9 W	0.9 W	0.9 W	0.9 W
Rated current	75 mA	36.9 mA	18.5 mA	10 mA	5.2 mA
Coil resistance	160 Ω ±10 %	650 Ω ±10 %	2,600 Ω ±10 %	11,000 Ω ±10 %	42,000 Ω ±10 %

Ordering data					
1 change over contact Type	DRL170012L	DRL170024L	DRL170048L	DRL170110L	DRL170220L
1CO Order No.	<b>1133450000</b>	<b>1133460000</b>	<b>1133470000</b>	<b>1133480000</b>	<b>1133490000</b>
2 change over contact Type	DRL270012L	DRL270024L	DRL270048L	DRL270110L	DRL270220L
2CO Order No.	<b>1133510000</b>	<b>1133520000</b>	<b>1133530000</b>	<b>1133540000</b>	<b>1133550000</b>



**Ordering data**

	24 V AC	115 V AC	230 V AC
<b>Input</b>			
Rated voltage	24 V AC	115 V AC	230 V AC
Response / dropout voltage	19.2 V / 7.2 V	92 V / 34.5 V	184 V / 69 V
Power consumption	1.2 VA	1.2 VA	1.2 VA
Rated current (50 Hz)	54 mA	12.9 mA	6.8 mA
Coil resistance	160 Ω ±10 %	3,750 Ω ±10 %	13,000 Ω ±10 %

Ordering data			
1 change over contact Type	DRL170524L	DRL170615L	DRL170730L
1CO Order No.	<b>1133840000</b>	<b>1133850000</b>	<b>1133860000</b>
2 change over contact Type	DRL270524L	DRL270615L	DRL270730L
2CO Order No.	<b>1133870000</b>	<b>1133880000</b>	<b>1133890000</b>

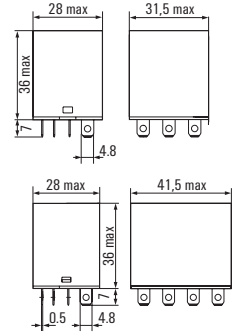


**DRL Power Relay**

**3 CO AC/DC coil**

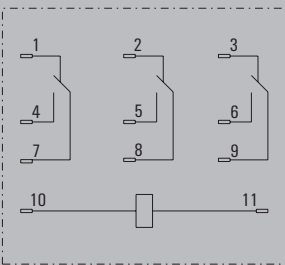
**4 CO AC/DC coil**

- High wear resistivity for AC loads
- High dielectric strength: 2,000 V

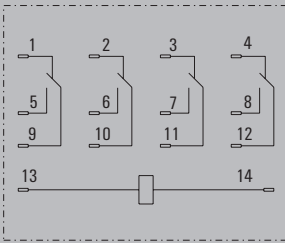


**Circuit diagram**

3CO



4CO



**Output**

Max. switching voltage	250 V AC
Continuous current	10 A
Contact material	AgCdO
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 20 ms / < 20 ms

**Input**

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	3CO: 2 VA / 1.4 W; 4CO: 2.5 VA / 1.5 W

**General**

Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 2000 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; UL
Weight	3CO: 50 g; 4CO: 65 g
Packing unit	10

**Dimension**

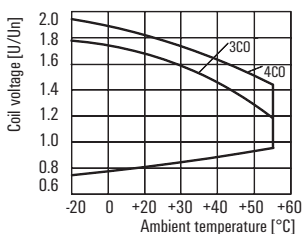
Depth x Width x Height	mm 36 / x / 28
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**Note**

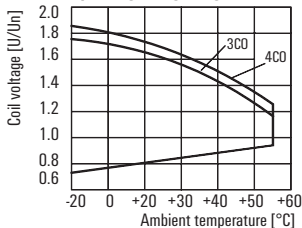
	x = 31.5 3CO / 41.5 4CO
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**Applications**

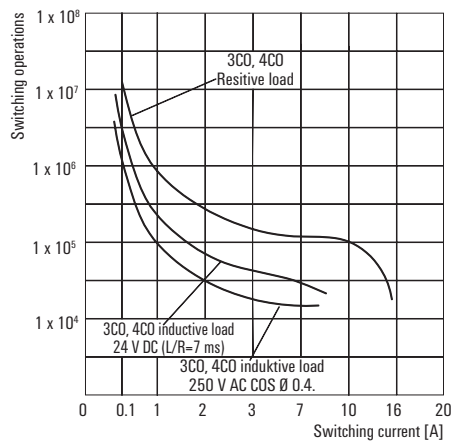
**Operating voltage range [DC]**



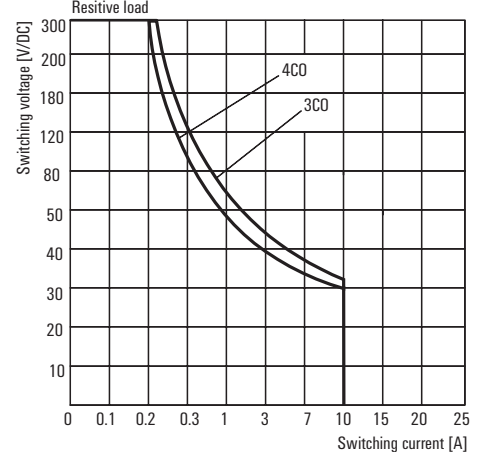
**Operating voltage range [AC]**



**Electrical endurance**



**DC load breaking capacity**



**DRL Power Relay**  
**3 CO AC/DC coil**  
**4 CO AC/DC coil**

Type code	DRL			
Type	DRL			
Type of construction	370 3 change over contact	570 4 change over contacts		
Coil voltage	012 12 V DC / 024 24 V DC	048 48 V DC / 110 110 V DC	220 220 V DC / 524 24 V AC	615 115 V AC / 730 230 V AC
LED indicator	L			

**Ordering data**

	12 V DC		24 V DC		48 V DC		110 V DC		220 V DC	
<b>Input</b>										
Rated voltage	12 V DC		24 V DC		48 V DC		110V DC		220V DC	
Response / dropout voltage	9 V / 1.2 V		18 V / 2.4 V		36 V / 4.8 V		82.5 V / 11 V		165 V / 22 V	
	3CO	4CO	3CO	4CO	3CO	4CO	3CO	4CO	3CO	4CO
Power consumption	1.4 W	1.5 W	1.4 W	1.5 W	1.4 W	1.5 W	1.4 W	1.5 W	1.4 W	1.5 W
Rated current	120 mA	125 mA	60 mA	66.7 mA	30 mA	31.2 mA	13.1 mA	16.2 mA	6.7 mA	7.6 mA
Coil resistance	100 Ω ±10 %	96 Ω ±10 %	400 Ω ±10 %	360 Ω ±10 %	1,600 Ω ±10 %	1,540 Ω ±10 %	8,400 Ω ±10 %	6,800 Ω ±10 %	33,000 Ω ±10 %	29,000 Ω ±10 %

Ordering data	12 V DC		24 V DC		48 V DC		110 V DC		220 V DC	
3 change over contacts Type	DRL370012L		DRL370024L		DRL370048L		DRL370110L		DRL370220L	
3CO Order No.	1133570000		1133580000		1133590000		1133600000		1133610000	
4 change over contacts Type	DRL570012L		DRL570024L		DRL570048L		DRL570110L		DRL570220L	
4CO Order No.	1133620000		1133630000		1133640000		1133650000		1133660000	

**Ordering data**

	24 V AC		115 V AC		230 V AC	
<b>Input</b>						
Rated voltage	24 V AC		115 V AC		230 V AC	
Response / dropout voltage	19.2 V / 7.2 V		92 V / 34.5 V		184 V / 69 V	
	3CO	4CO	3CO	4CO	3CO	4CO
Power consumption	2 VA	2.5 VA	2 VA	2.5 VA	2 VA	2.5 VA
Rated current (50 Hz)	80 mA	93.5 mA	16 mA	25.5 mA	10 mA	13.1 mA
Coil resistance	102 Ω ±10 %	80 Ω ±10 %	2,300 Ω ±10 %	1,680 Ω ±10 %	8,600 Ω ±10 %	6,700 Ω ±10 %

Ordering data	24 V AC		115 V AC		230 V AC	
3 change over contacts Type	DRL370524L		DRL370615L		DRL370730L	
3CO Order No.	1133910000		1133920000		1133930000	
4 change over contact Type	DRL570524L		DRL570615L		DRL570730L	
4CO Order No.	1133940000		1133950000		1133960000	

Accessories for DRL relay



Ordering data

Technical data	
Rated voltage	300 V
Rated current	10 A
Dielectric strength for input - output	2,000 V
Dielectric strength between the contacts	2,500 V
Ambient temperature (operational)	-40 ... 85 °C
Pollution severity	2
Over voltage class	III
Max. torque	1.0 Nm
Wire cross section	0.5 ... 2.5 mm <sup>2</sup>
Protection class (IEC 61810)	IP20
Approvals	CE, cURus
Description	
Socket, snaps onto DIN-rail, 2CO	
Socket, snaps onto DIN-rail, 3CO	
Socket, snaps onto DIN-rail, 4CO	

Type	Qty.	Order No.
SLD F 2CO	10	7760056225
SLD F 3CO	10	7760056226
SLD F 4CO	10	7760056227

Ordering data

Technical data	
Metal clips SLD F 2CO	
Metal clips SLD F 3CO	
Metal clips SLD F 4CO	

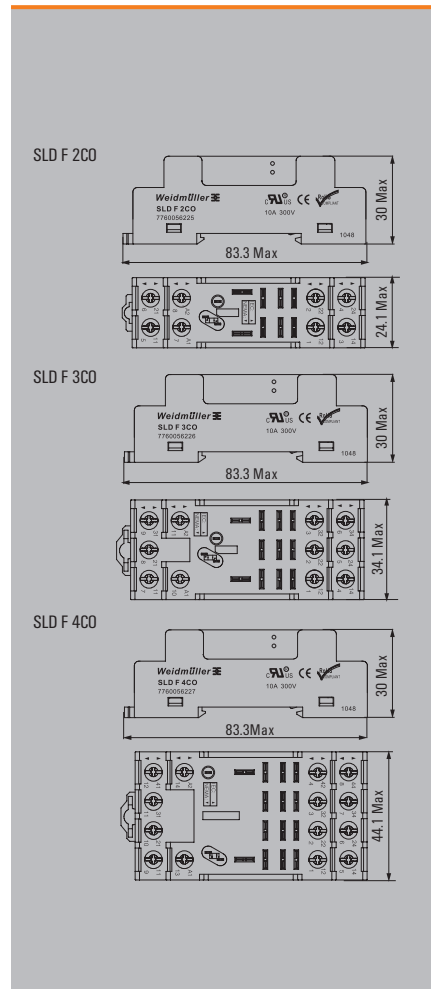
Type	Order No.
SLD clip 2CO	7760056108
SLD clip 3CO	7760056234
SLD clip 4CO	7760056235

Ordering data

Technical data	
Suppressing diode 6...230 V DC, for SLD F 2CO/3CO	
RC element 110...230 V AC, for SLD F 2CO/3CO	
RC element 6 ... 230 V AC, for SLD F 4CO	
Suppressing diode 6...230 V DC, for SLD F 4CO	

Type	Order No.
RIM 1 6/230 V DC	7760056169
RIM 3 110/230 V AC	7760056014
RIM 5 6/230 V AC	1174670000
RIM 5 6/230 V DC	1174650000

Dimensions in mm



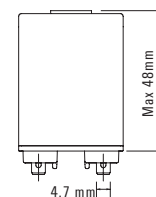
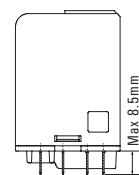
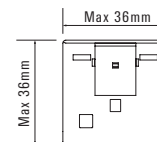


**Resistive Load DRW power relay**

**2 CO AC/DC coil**

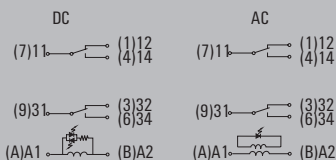
**3 CO AC/DC coil**

- Suitable to switch high voltage load
- With LED and test lever

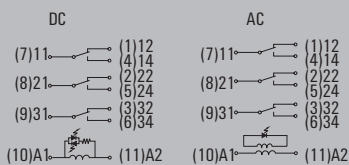


**Circuit diagram**

2CO



3CO



**Output**

Max. switching voltage	400 V AC
Continuous current	16 A@ 400 V AC; 16 A@ 30 V DC
Contact material	AgCdO
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles
Switch-on / switch-off delay	< 20 ms / < 10 ms
Max. switching frequency at rated load	1 Hz

**Input**

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.5 W

**General**

Ambient temperature (operational)	- 40 ... 60 °C
Storage temperature	- 40 ... 60 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 4000 V AC / 1 min Between N.O. contacts 2500 V AC / 1 min Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	3.5 mm / 6 mm
Insulation coordination IEC60664	Rated voltage 400 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	51 g

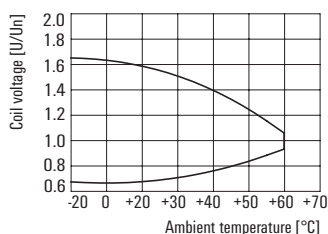
**Dimension**

Depth x Width x Height	mm 48 / 36 / 36
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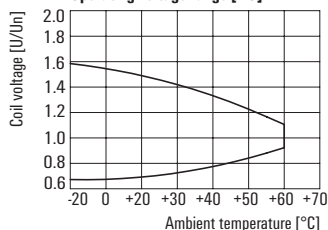
**Note**

**Applications**

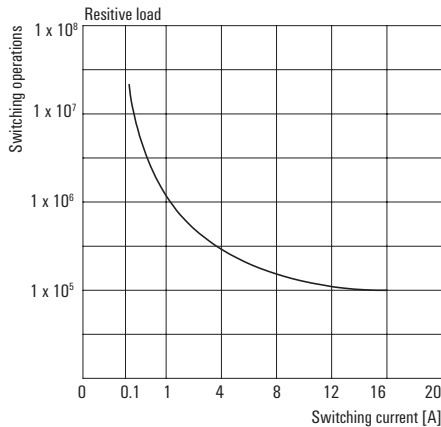
**Operating voltage range [DC]**



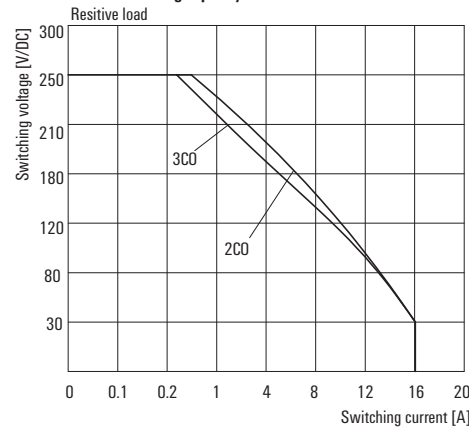
**Operating voltage range [AC]**



**Electrical endurance**



**DC load breaking capacity**





**DRW power relay**  
**2 CO AC/DC coil**  
**3 CO AC/DC coil**

Type code	DRW			
Type	DRW			
Type of construction	270 2CO 174 1NC			
Coil voltage	012 12 V DC / 024 24 V DC 048 48 V DC / 110 110 V DC 220 220 V DC / 524 24 V AC 548 48 V AC / 615 115 V AC 730 230 V AC / 900 400 V AC			
With LED and test lever	LT			

**Ordering data**

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
<b>Input</b>					
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
DC response / dropout voltage	9 V / 1.2 V	8 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	115 V / 22 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	120 mA	60 mA	30 mA	13.03 mA	6.7 mA
Coil resistance	100 Ω ±10 %	400 Ω ±10 %	1,600 Ω ±10 %	8,400 Ω ±10 %	33,000 Ω ±10 %

Ordering data						
2CO contact	Type	DRW270012LT	DRW270024LT	DRW270048LT	DRW270110LT	DRW270220LT
	Order No.	<b>1219730000</b>	<b>1219740000</b>	<b>1219750000</b>	<b>1219760000</b>	<b>1219770000</b>
3CO contact	Type	DRW370012LT	DRW370024LT	DRW370048LT	DRW370110LT	DRW370220LT
	Order No.	<b>1219780000</b>	<b>1219790000</b>	<b>1219810000</b>	<b>1219820000</b>	<b>1219830000</b>
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>

**Ordering data**

	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
<b>Input</b>					
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC	400 V AC
DC response / dropout voltage	19.2V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V	320 V / 120 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
DC rated current	101.7 mA	51.04 mA	21.2 mA	10.61 mA	6.1 mA
Coil resistance	100 Ω ±10 %	350 Ω ±10 %	2,200 Ω ±10 %	8,000 Ω ±10 %	30,000 Ω ±10 %

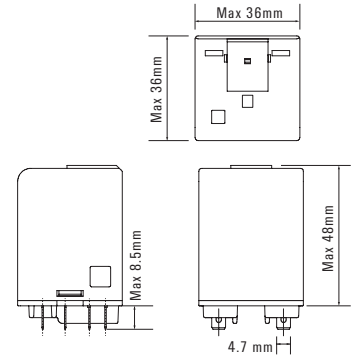
Ordering data						
2CO contact	Type	DRW270524LT	DRW270548LT	DRW270615LT	DRW2701730LT	DRW270900LT
	Order No.	<b>1219350000</b>	<b>1219360000</b>	<b>1219370000</b>	<b>1219380000</b>	<b>1219390000</b>
3CO contact	Type	DRW370524LT	DRW370548LT	DRW370615LT	DRW370730LT	DRW370900LT
	Order No.	<b>1219410000</b>	<b>1219420000</b>	<b>1219430000</b>	<b>1219440000</b>	<b>1219450000</b>
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>

**DRH DC Relay**

**1 NO AC/DC coil**

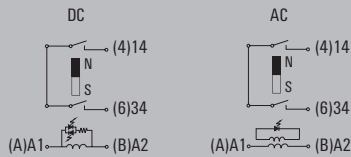
**1 NC AC/DC coil**

- Suitable to switch heavy DC load
- With Blowout magnet
- With LED and test lever
- For switching of high DC loads up to 10 A@ 220 V DC

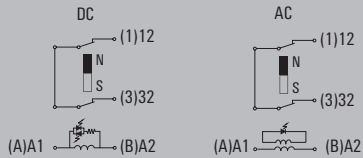


**Circuit diagram**

1NO



1NC



**Output**

Max. switching voltage	AC: 500 V; DC: 220 V
Continuous current	16 A@ 500 V AC; 10 A@ 220 V DC
Contact material	AgSnO2
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles
Switch-on / switch-off delay	< 20 ms / < 20 ms
Max. switching frequency at rated load	1 Hz

**Input**

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 750 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.5 W

**General**

Ambient temperature (operational)	- 40 °C ... 60 °C
Storage temperature	- 40 °C ... 60 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 4000 V AC / 1 min Between N.O. contacts 2500 V AC / 1 min Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 400 V Pollution severity 3 Over voltage class III

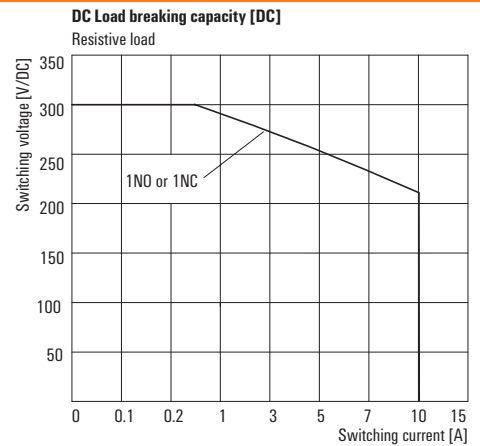
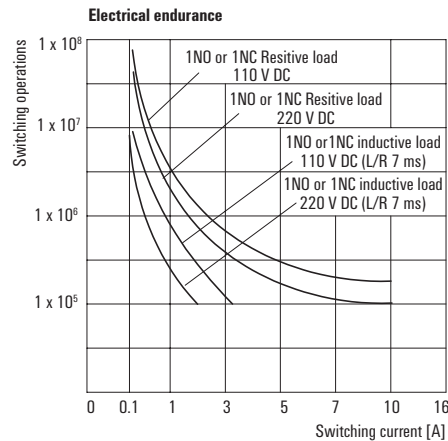
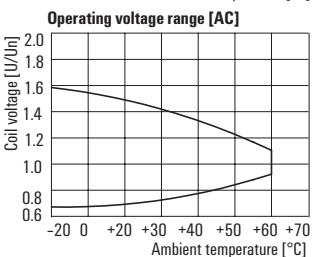
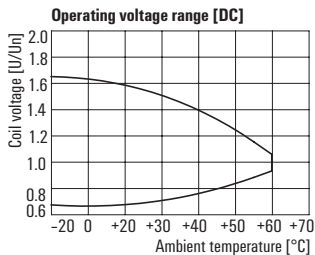
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	48 g

**Dimension**

Depth x Width x Height	mm 48 / 36 / 36
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**Note**

**Applications**



**DRH DC Relay**  
**1 NO AC/DC coil**  
**1 NC AC/DC coil**

Type code	DRH			
Type	DRH			
Type of construction	173 1NO			
	174 1NC			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	548 48 V AC / 615 115 V AC			
	730 230 V AC			
With LED and test lever	LT			

**Ordering data**

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
<b>Input</b>					
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
DC response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	120 mA	60 mA	30 mA	13.03 mA	6.7 mA
Coil resistance	100 Ω ±10 %	400 Ω ±10 %	1,600 Ω ±10 %	8,400 Ω ±10 %	33,000 Ω ±10 %

Ordering data						
1NO contact	Type	DRH173012LT	DRH173024LT	DRH173048LT	DRH173110LT	DRH173220LT
	Order No.	<b>1219840000</b>	<b>1219850000</b>	<b>1219860000</b>	<b>1219870000</b>	<b>1219880000</b>
1NC contact	Type	DRH174012LT	DRH174024LT	DRH174048LT	DRH174110LT	DRH174220LT
	Order No.	<b>1219940000</b>	<b>1219950000</b>	<b>1219960000</b>	<b>1219970000</b>	<b>1219980000</b>
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>

**Ordering data**

	24 V AC	48 V AC	115 V AC	230 V AC
<b>Input</b>				
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
AC response / dropout voltage	19.2 V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA
AC rated current	101.7 mA	51.04 mA	21.2 mA	10.61 mA
Coil resistance	100 Ω ±10 %	350 Ω ±10 %	2,200 Ω ±10 %	8,000 Ω ±10 %

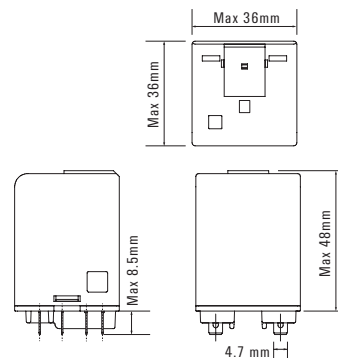
Ordering data					
1NO contact	Type	DRH173524LT	DRH173548LT	DRH173615LT	DRH173730LT
	Order No.	<b>1219890000</b>	<b>1219910000</b>	<b>1219920000</b>	<b>1219930000</b>
1NC contact	Type	DRH174012LT	DRH174024LT	DRH174048LT	DRH174110LT
	Order No.	<b>1219990000</b>	<b>1220010000</b>	<b>1220020000</b>	<b>1220030000</b>
Test lever blocking clip	Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
	Order No.	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>

**DRH DC Relay**

**2 NO AC/DC coil**

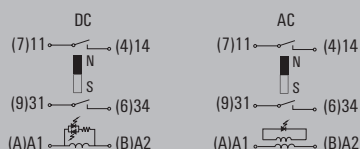
**1 NO/ 1 NC AC/DC coil**

- Suitable to switch heavy DC load
- With Blowout magnet
- With LED and test lever
- For switching of high DC loads up to 3 A@ 220 V DC

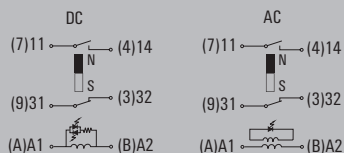


**Circuit diagram**

2NO



1NO/1NC



**Output**

Max. switching voltage	AC: 250 V; DC: 220 V
Continuous current	2NO 16 A@ 250 V AC; 3 A@ 220 V DC 1NO/1NC 16 A@ 250 V AC; 3 A@ 220 V DC
Contact material	AgSnO2
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles
Switch-on / switch-off delay	< 20 ms / < 20 ms
Max. switching frequency at rated load	1 Hz

**Input**

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 750 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 10 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.5 W

**General**

Ambient temperature (operational)	- 40 ... 60 °C
Storage temperature	- 40 ... 60 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 4000 V AC / 1 min
	Between N.O. contacts 2500 V AC / 1 min
	Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 400 V
	Pollution severity 3
	Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	48 g

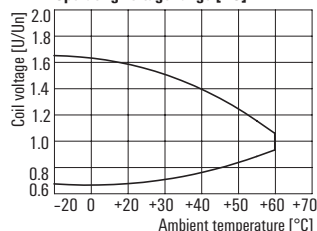
**Dimension**

Plug-in connection	
Depth x Width x Height	mm 48 / 36 / 36

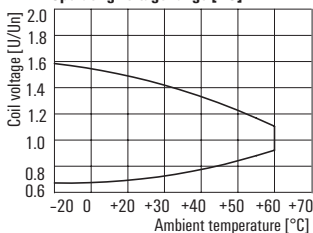
**Note**

**Applications**

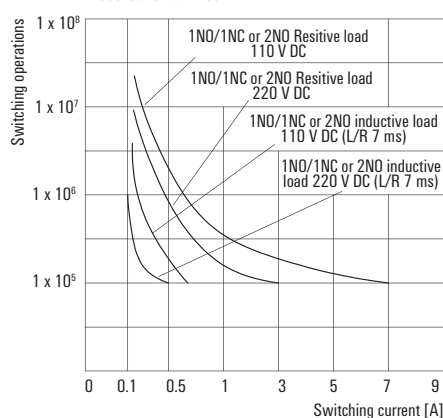
**Operating voltage range [DC]**



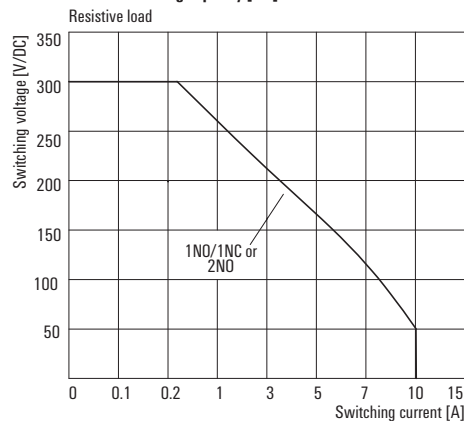
**Operating voltage range [AC]**



**Electrical endurance**



**DC Load breaking capacity [DC]**



**DRH DC Relay**  
**2 NO AC/DC coil**  
**1 NO/ 1 NC AC/DC coil**

Type code	DRH			
Type	DRH			
Type of construction	275 1NO/1NC			
	276 2NO			
Coil voltage	012 12 V DC / 024 24 V DC			
	048 48 V DC / 110 110 V DC			
	220 220 V DC / 524 24 V AC			
	548 48 V AC / 615 115 V AC			
	730 230 V AC			
With LED and test lever	LT			

**Ordering data**

	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
<b>Input</b>					
Rated voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
DC response / dropout voltage	9 V / 1.2 V	18 V / 2.4 V	36 V / 4.8 V	82.5 V / 11 V	165 V / 22 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	120 mA	60 mA	30 mA	13.03 mA	6.7 mA
Coil resistance	100 Ω ±10 %	400 Ω ±10 %	1,600 Ω ±10 %	8,400 Ω ±10 %	33,000 Ω ±10 %

Ordering data					
1NO contact/ Type	DRH275012LT	DRH275024LT	DRH275048LT	DRH275110LT	DRH275220LT
1NC contact Order No.	<b>1220040000</b>	<b>1220050000</b>	<b>1220060000</b>	<b>1220070000</b>	<b>1220080000</b>
2NO contact Type	DRH276012LT	DRH276024LT	DRH276048LT	DRH276110LT	DRH276220LT
Order No.	<b>1220140000</b>	<b>1220150000</b>	<b>1220170000</b>	<b>1220180000</b>	<b>1220190000</b>
Test lever blocking clip Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
Order No.	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>

**Ordering data**

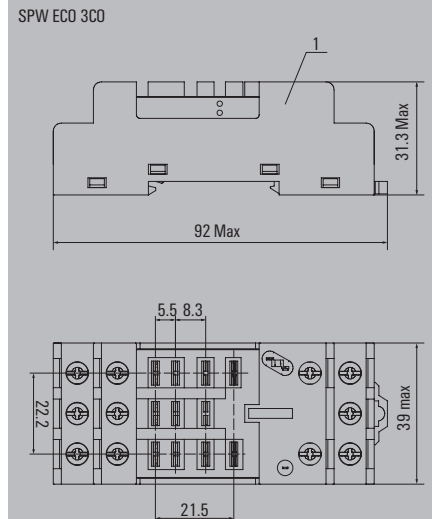
	24 V AC	48 V AC	115 V AC	230 V AC
<b>Input</b>				
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC
DC response / dropout voltage	19.2V / 7.2 V	38.4 V / 14.4 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA
DC rated current	101.7 mA	51.04 mA	21.2 mA	10.61 mA
Coil resistance	100 Ω ±10 %	350 Ω ±10 %	2,200 Ω ±10 %	8,000 Ω ±10 %

Ordering data				
1NO contact/ Type	DRH275524LT	DRH275548LT	DRH275615LT	DRH275730LT
1NC contact Order No.	<b>1220090000</b>	<b>1220110000</b>	<b>1220120000</b>	<b>1220130000</b>
2NO contact Type	DRH276524LT	DRH276548LT	DRH276615LT	DRH276730LT
Order No.	<b>1220200000</b>	<b>1220210000</b>	<b>1220220000</b>	<b>1220230000</b>
Test lever blocking clip Type	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW	Test lever block for DRH/DRW
Order No.	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>	<b>7760056249</b>

Accessories for DRH and DRW relay



Dimensions in mm



Ordering data

Technical data	
Rated voltage	400 V AC
Rated current	16 A
Dielectric strength for input - output	4,000 V
Dielectric strength between the contacts	4,000 V
Ambient temperature (operational)	-40 ... 60 °C
Pollution severity	2
Over voltage class	II
Max. torque/max.	1.2 Nm
Wire cross section	0.5 ... 4 mm <sup>2</sup>
Protection class (IEC 61810)	IP20
Weight	64 g
Approvals	CE, cURus
Description	
Socket, snaps onto DIN-rail, 3C0	
Metal clip	

Type	Qty.	Order No.
SPW ECO 3C0	10	1220250000
Metal clip DRH/DRW	10	1220260000



Functional modules

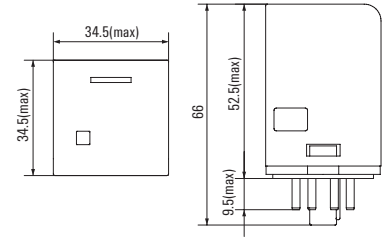
Technical data	
RC element 6 ... 230 V AC	
Suppressordiode 6 ... 230 V DC	

	Order No.
RIM 5 6/230 V AC	1174670000
RIM 5 6/230 V DC	1174650000



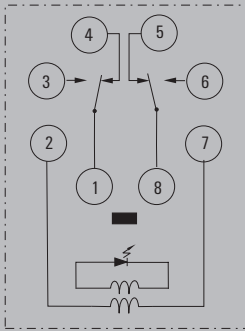
**DRR Power Relay**  
**2CO AC/DC coil**

- 2500 VA switching capacity
- 8-pin relay

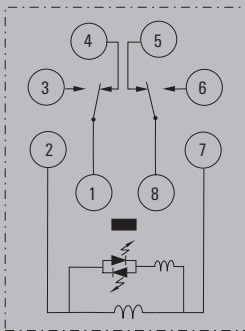


**Circuit diagram**

AC



DC



**Output**

Max. switching voltage	250 V AC
Continuous current	10 A
Contact material	AgCdO
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 30 ms / < 20 ms

**Input**

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 15 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.7 VA / 1.5 W

**General**

Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	5 ... 85 %
Dielectric strength	Input - output 2500 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2500 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV
Weight	75 g
Packing unit	10

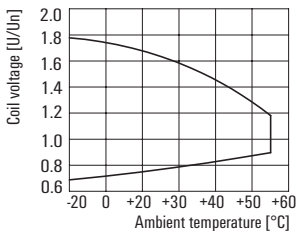
**Dimension**

Depth x Width x Height	mm 52.5 / 34.5 / 34.5
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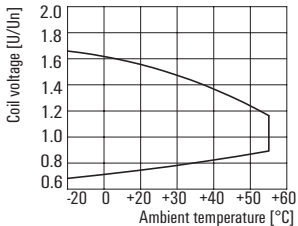
**Note**

**Applications**

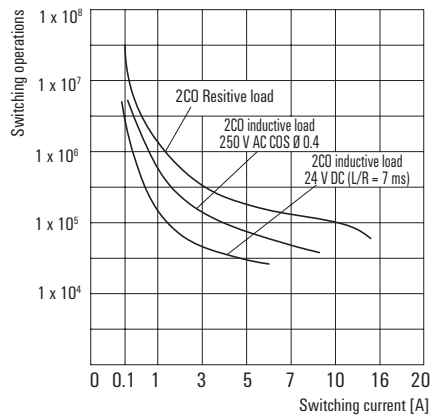
**Operating voltage range [DC]**



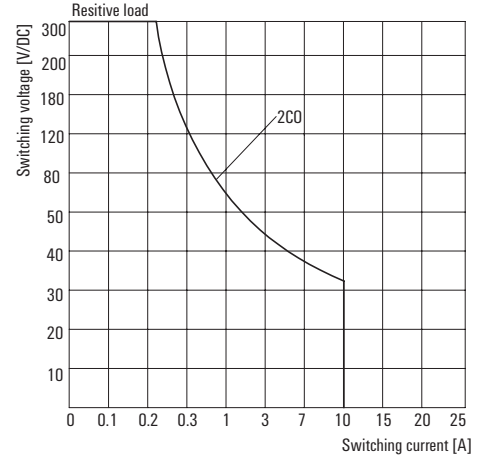
**Operating voltage range [AC]**



**Electrical endurance**



**DC load breaking capacity**





**DRR Power Relay  
2CO AC/DC coil**

Type code	DRR			
Type	DRR			
Type of construction	270	2 change over contacts		
Coil voltage	012	12 V DC / 024	24 V DC	
	048	48 V DC / 110	110 V DC	
	220	220 V DC / 524	24 V AC	
	615	115 V AC / 730	230 V AC	
LED indicator	L			

**Ordering data**

	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO	220 V DC 2CO
<b>Input</b>					
Rated voltage	12 V DC	24 V DC	48 V DC	110V DC	220V DC
DC response / dropout voltage	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
DC rated current	125 mA	55.8 mA	29.3 mA	14.9 mA	7.5 mA
Coil resistance	96 Ω ±10 %	430 Ω ±10 %	1,640 Ω ±10 %	7,360 Ω ±10 %	29,500 Ω ±10 %

Ordering data					
Type	DRR270012L	DRR270024L	DRR270048L	DRR270110L	DRR270220L
Order No.	1133360000	1133370000	1133380000	1133390000	1133400000

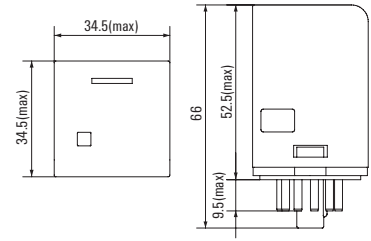
**Ordering data**

	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
<b>Input</b>			
Rated voltage	24 V AC	115 V AC	230 V AC
Response / dropout voltage	19.2 V / 7.2 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.7 VA	2.7 VA	2.7 VA
Rated current (50 Hz/60 Hz)	130 mA / 116 mA	29.8 mA / 25.4 mA	14.9 mA / 12.7 mA
Coil resistance	62.5 Ω ±10 %	1,250 Ω ±10 %	6,500 Ω ±10 %

Ordering data			
Type	DRR270524L	DRR270615L	DRR270730L
Order No.	1133760000	1133780000	1133800000

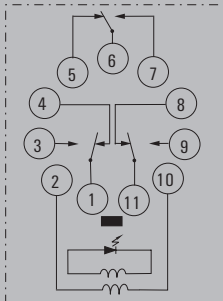
**DRR Power Relay**  
**3CO AC/DC coil**

- 2500 VA switching capacity
- 11-pin plug in DIN rail installation

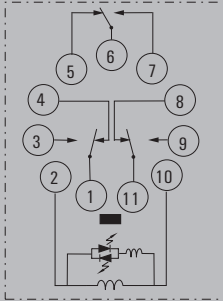


**Circuit diagram**

**DRR310**  
AC



DC



**Output**

Max. switching voltage	250 V AC
Continuous current	10 A
Contact material	AgNi 90/10
Min. switching power	12 V / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles (1,800 cycles / hour)
Switch-on / switch-off delay	< 30 ms / < 20 ms

**Input**

Response voltage @ 25 °C	AC: ≤ 80 % of rated voltage DC: ≤ 80 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 30 % of rated voltage DC: ≥ 15 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.7 VA / 1.5 W

**General**

Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	5 ... 85 %
Dielectric strength	Input - output 2500 V AC / 1 min Between N.O. contacts 1000 V AC / 1 min Between adjacent contacts 2500 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V Pollution severity 3 Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV
Weight	75 g
Packing unit	10

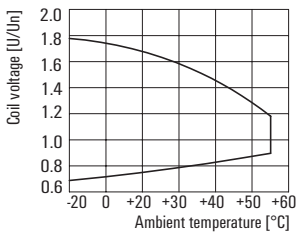
**Dimension**

Depth x Width x Height	mm 54.5 / 34.5 / 34.5
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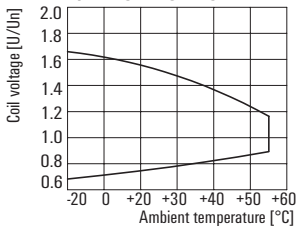
**Note**

**Applications**

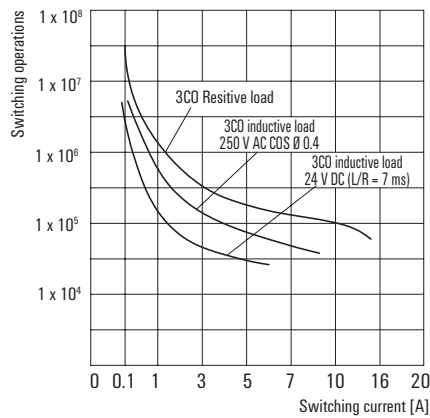
**Operating voltage range [DC]**



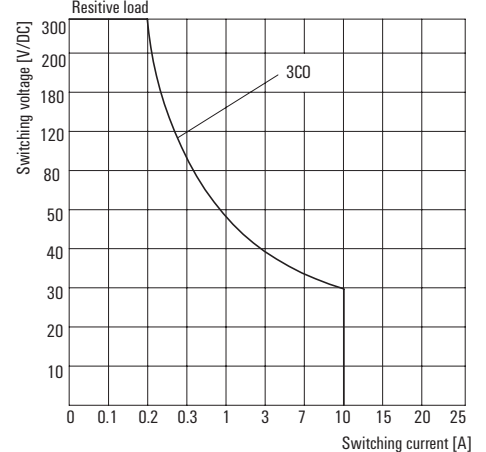
**Operating voltage range [AC]**



**Electrical endurance**



**DC load breaking capacity**



**DRR Power Relay  
3CO AC/DC coil**

Type code	DRR			
Type	DRR			
Type of construction	370	3 change over contacts		
Coil voltage	012	12 V DC / 024	24 V DC	
	048	48 V DC / 110	110 V DC	
	220	220 V DC / 524	24 V AC	
	615	115 V AC / 730	230 V AC	
LED indicator	L			

**Ordering data**

Input	12 V DC 3CO	24 V DC 3CO	48 V DC 3CO	110 V DC 3CO	220 V DC 3CO
Rated voltage	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
Response / dropout voltage	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.5 W	1.5 W	1.5 W	1.5 W	1.5 W
Rated current	125 mA	55.8 mA	29.3 mA	14.9 mA	7.5 mA
Coil resistance	96 Ω ±10 %	430 Ω ±10 %	1,640 Ω ±10 %	7,360 Ω ±10 %	29,500 Ω ±10 %

Ordering data					
Type	DRR370012L	DRR370024L	DRR370048L	DRR370110L	DRR370220L
Order No.	<b>1133410000</b>	<b>1133420000</b>	<b>1133430000</b>	<b>1133440000</b>	<b>1133560000</b>

**Ordering data**

Input	24 V AC 3CO	115 V AC 3CO	230 V AC 3CO
Rated voltage	24 V AC	115 V AC	230 V AC
Response / dropout voltage	19.2V / 7.2 V	92 V / 34.5 V	184 V / 69 V
Power consumption	2.7 VA	2.7 VA	2.7 VA
Rated current (50 Hz/60 Hz)	130 mA / 116 mA	29.8 mA / 25.4 mA	14.9 mA / 12.7 mA
Coil resistance	62.5 Ω ±10 %	1,250 Ω ±10 %	6,500 Ω ±10 %

Ordering data			
Type	DRR370524L	DRR370615L	DRR370730L
Order No.	<b>1133810000</b>	<b>1133820000</b>	<b>1133830000</b>

Accessories for DRR relay



Ordering data

Technical data	
Rated voltage	300 V
Rated current	12 A
Dielectric strength for input - output	4,000 V
Dielectric strength between the contacts	2,500 V
Operating temperature	-40 ... 85 °C
Pollution severity	2
Over voltage class	III
Max. torque	1.0 Nm
Wire cross section	0.5 ... 2.5 mm <sup>2</sup>
Protection class (IEC 61810)	IP20
Weight	50 g
Approvals	CE
Description	
Socket, snaps onto DIN-rail, 8-pin	
Socket, snaps onto DIN-rail, 11-pin	

Type	Qty.	Order No.
SRD ECO 2CO	10	1132810000
SRD ECO 3CO	10	1132820000

Metal clip

Description
Metal clip for DRR relay sockets

Order No.
DRR SOCKET METAL CLIP
1134160000

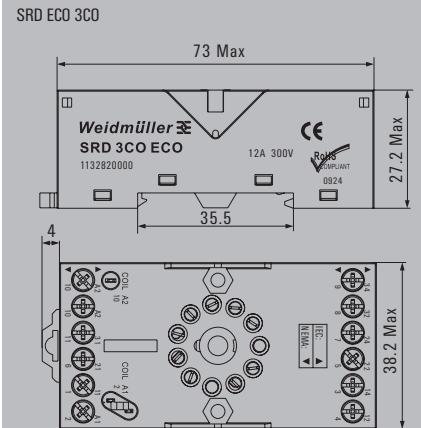
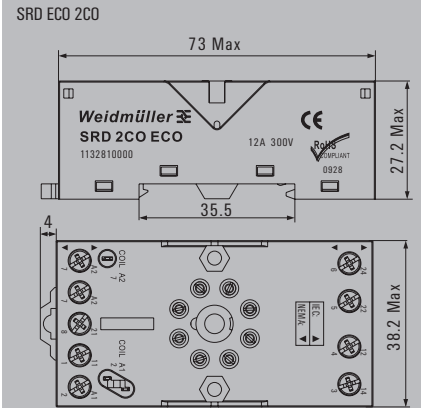


Functional modules

Technical data
RC element 6 ... 230 V AC
Suppressordiode 6 ... 230 V DC

Order No.
RIM 5 6/230 V AC
RIM 5 6/230 V DC

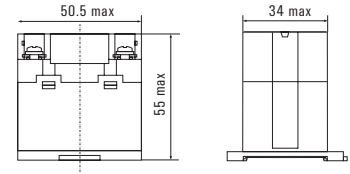
Dimensions in mm





**PWR high power relay**  
**1 NO AC/DC coil**

- Max. load current: 30 A



**Circuit diagram**

**1NO**



**Output**

Max. switching voltage	277 V AC
Continuous current	30 A
Contact material	AgNi
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles
Switch-on / switch-off delay	< 20 ms / < 10 ms

**Input**

Response voltage @ 25 °C	AC: ≤ 75 % of rated voltage
	DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 15 % of rated voltage
	DC: ≥ 15 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.9 W

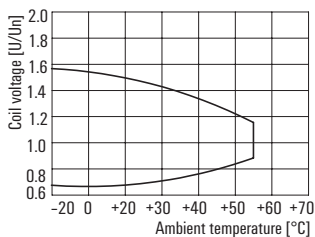
**General**

Ambient temperature (operational)	- 25 ... 55 °C	
Storage temperature	- 25 ... 55 °C	
Humidity	35 ... 85 %	
Dielectric strength	Input - output	2000 V AC / 1 min
	Between N.O. contacts	2000 V AC / 1 min
	Between adjacent contacts	4000 V AC / 1 min
Clearance / creepage distance	3.5 mm / 6 mm	
Insulation coordination IEC60664	Rated voltage	250 V
	Pollution severity	3
	Over voltage class	III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm	
Shock resistance	10 G (half wave of sine pulse: 11 ms)	
Approval	CE; TÜV; cURus	
Weight	120 g	
<b>Dimension</b>	<b>Screw connection</b>	
Depth x Width x Height	mm 55 / 50.5 / 34	

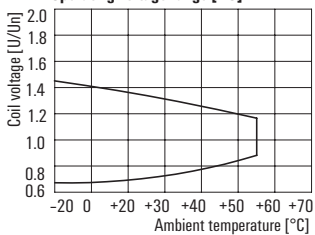
**Note**

**Applications**

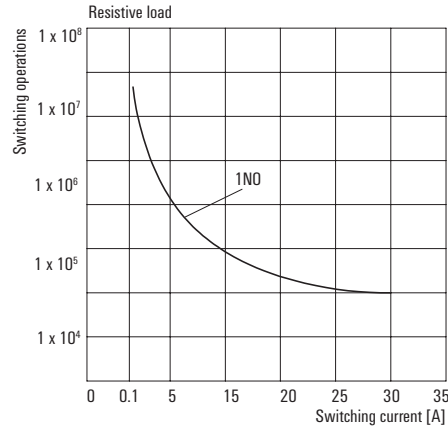
**Operating voltage range [DC]**



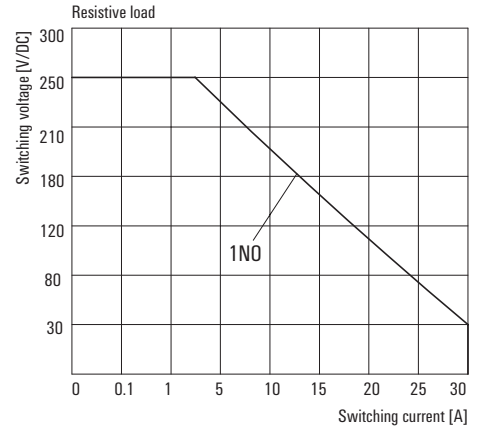
**Operating voltage range [AC]**



**Electrical endurance**



**DC Load breaking capacity [DC]**



**PWR high power relay  
1 NO AC/DC coil**

Type code	PWR				
Type	PWR				
Type of construction and mounting	173 1N.O. contact, DIN-rail mounting				
Coil voltage	006	6 V DC / 012	12 V DC		
	024	24 V DC / 048	48 V DC		
	110	110 V DC / 220	220 V DC		
	524	24 V AC / 548	48 V AC		
	615	115 V AC / 730	230 V AC		
	880	380 V AC			
LED indicator	L with LED				

**Ordering data**

	6 V DC 1 NO	12 V DC 1 NO	24 V DC 1 NO	48 V DC 1 NO	110 V DC 1 NO	220 V DC 1 NO
<b>Input</b>						
Rated voltage	6 V DC	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
DC response / dropout voltage	4.5 V / 0.9 V	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W
DC rated current	317 mA	160 mA	79.2 mA	39.3 mA	17.3 mA	8.6 mA
Coil resistance	18.9 Ω ±10 %	75 Ω ±10 %	303 Ω ±10 %	1,220 Ω ±10 %	6,360 Ω ±10 %	25,474 Ω ±10 %

Ordering data						
Din rail installation, Type	PWR173006L	PWR173012L	PWR173024L	PWR173048L	PWR173110L	PWR173220L
Order No.	<b>1219460000</b>	<b>1219470000</b>	<b>1219480000</b>	<b>1219490000</b>	<b>1219510000</b>	<b>1219520000</b>

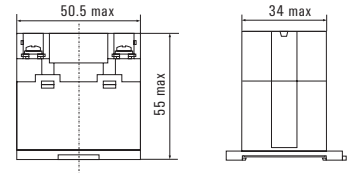
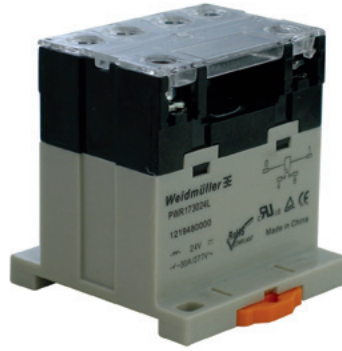
**Ordering data**

	24 V AC 1 NO	48 V AC 1 NO	115 V AC 1 NO	230 V AC 1 NO	380 V AC 1 NO
<b>Input</b>					
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC	380 V AC
Response / dropout voltage	18 V / 3.6 V	36 V / 7.2 V	86.3 V / 17.3 V	172.5 V / 34.5 V	285 V / 57 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Rated current (50 Hz/60 Hz)	87.3 mA	43.6 mA	22.1 mA	11.0 mA	6.1 mA
Coil resistance	275 Ω ±10 %	1,100 Ω ±10 %	5,200 Ω ±10 %	21,000 Ω ±10 %	62,650 Ω ±10 %

Ordering data					
Din rail installation, Type	PWR173524L	PWR173548L	PWR173615L	PWR173730L	PWR173880L
Order No.	<b>1219090000</b>	<b>1219120000</b>	<b>1219130000</b>	<b>1219140000</b>	<b>1219150000</b>

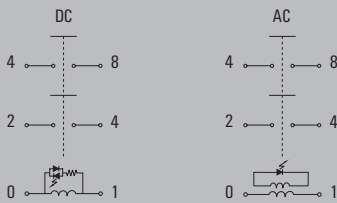
**PWR high power relay**  
**2 NO AC/DC coil**

- Max. load current: 25 A



**Circuit diagram**

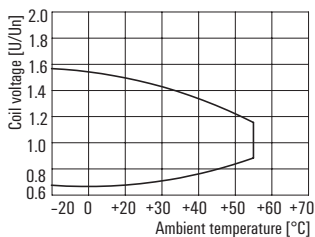
**2NO**



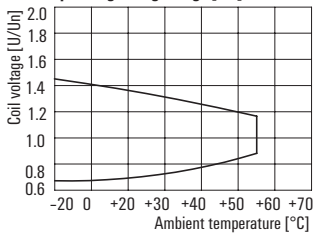
<b>Output</b>	
Max. switching voltage	277 V AC
Continuous current	25 A
Contact material	AgNi
Min. switching power	12 V DC / 100 mA
Contact resistance (initial)	< 50 mΩ
Electrical endurance	> 10 × 10 <sup>4</sup> cycles
Switch-on / switch-off delay	< 30 ms / < 30 ms
<b>Input</b>	
Response voltage @ 25 °C	AC: ≤ 75 % of rated voltage DC: ≤ 75 % of rated voltage
Dropout voltage @ 25 °C	AC: ≥ 15 % of rated voltage DC: ≥ 15 % of rated voltage
Max. voltage @ 25 °C	110 % of rated voltage
Coil power consumption	2.5 VA / 1.9 W
<b>General</b>	
Ambient temperature (operational)	- 25 ... 55 °C
Storage temperature	- 25 ... 55 °C
Humidity	35 ... 85 %
Dielectric strength	Input - output 2000 V AC / 1 min
	Between N.O. contacts 2000 V AC / 1 min
	Between adjacent contacts 4000 V AC / 1 min
Clearance / creepage distance	1.5 mm / 4 mm
Insulation coordination IEC60664	Rated voltage 250 V
	Pollution severity 3
	Over voltage class III
Vibration resistance	10~55 Hz dual amplitude: 1.0 mm
Shock resistance	10 G (half wave of sine pulse: 11 ms)
Approval	CE; TÜV; cURus
Weight	120 g
<b>Dimension Screw connection</b>	
Depth x Width x Height	mm 55 / 50.5 / 34
<b>Note</b>	

**Applications**

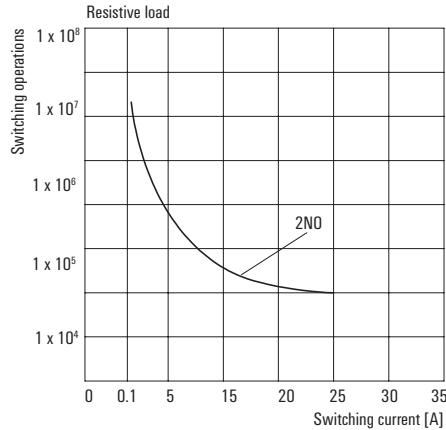
**Operating voltage range [DC]**



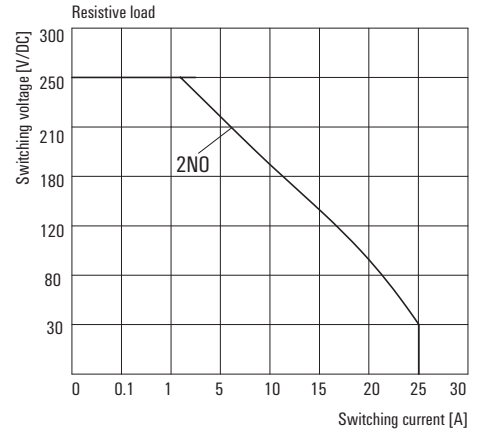
**Operating voltage range [AC]**



**Electrical endurance**



**DC Load breaking capacity [DC]**





**PWR high power relay  
2 NO AC/DC coil**

Type code	PWR				
Type	PWR				
Type of construction and mounting	276 2NO contact, DIN-rail mounting				
Coil voltage	006	6 V DC / 012	12 V DC		
	024	24 V DC / 048	48 V DC		
	110	110 V DC / 220	220 V DC		
	524	24 V AC / 548	48 V AC		
	615	115 V AC / 730	230 V AC		
	880	380 V AC			
LED indicator	L with LED				

**Ordering data**

	6 V DC 2 NO	12 V DC 2 NO	24 V DC 2 NO	48 V DC 2 NO	110 V DC 2 NO	220 V DC 2 NO
<b>Input</b>						
Rated voltage	6 V DC	12 V DC	24 V DC	48 V DC	110 V DC	220 V DC
DC response / dropout voltage	4.5 V / 0.9 V	9 V / 1.8 V	18 V / 3.6 V	36 V / 7.2 V	82.5 V / 16.5 V	165 V / 33 V
Power consumption	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W	1.9 W
DC rated current	317 mA	160 mA	79.2 mA	39.3 mA	17.3 mA	8.6 mA
Coil resistance	18.9 Ω ±10 %	75 Ω ±10 %	303 Ω ±10 %	1,220 Ω ±10 %	6,360 Ω ±10 %	25,474 Ω ±10 %

Ordering data						
Din rail installation, Type						
Order No.	PWR276006L <b>1219530000</b>	PWR276012L <b>1219540000</b>	PWR276024L <b>1219550000</b>	PWR276048L <b>1219560000</b>	PWR276110L <b>1219570000</b>	PWR276220L <b>1219580000</b>

**Ordering data**

	24 V AC 2 NO	48 V AC 2 NO	115 V AC 2 NO	230 V AC 2 NO	380 V AC 2 NO
<b>Input</b>					
Rated voltage	24 V AC	48 V AC	115 V AC	230 V AC	380 V AC
Response / dropout voltage	18 V / 3.6 V	36 V / 7.2 V	86.3 V / 17.3 V	172.5 V / 34.5 V	285 V / 57 V
Power consumption	2.5 VA	2.5 VA	2.5 VA	2.5 VA	2.5 VA
Rated current (50 Hz/60 Hz)	87.3 mA	43.6 mA	22.1 mA	11.0 mA	6.1 mA
Coil resistance	275 Ω ±10 %	1,100 Ω ±10 %	5,200 Ω ±10 %	21,000 Ω ±10 %	62,650 Ω ±10 %

Ordering data					
Din rail installation, Type					
Order No.	PWR276524L <b>1219160000</b>	PWR276548L <b>1219170000</b>	PWR276615L <b>1219180000</b>	PWR276730L <b>1219190000</b>	PWR276880L <b>1219220000</b>





# Addresses worldwide

- AE United Arab Emirates**  
Weidmüller Middle East FZE  
Warehouse Q3-79, SAIF-Zone  
P.O. Box 8591  
Sharjah U. A. E.  
Phone +971 65572723  
Fax +971 65572724  
wme.info@weidmueller.com
- AO Angola**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.
- AR Argentina**  
CPI SA  
Bauness 2660  
C1431DOF Buenos Aires  
Phone +54 11 4523 8008  
Fax +54 11 4522 0546  
info@cpi.com.ar  
www.cpi.com.ar
- AT Austria**  
Weidmüller GmbH  
IZ NOE Süd Straße 2b,  
Obj M 59  
2355 Wiener Neudorf  
Phone +43 2236 67080  
Fax +43 2236 6708-899  
office.at@weidmueller.com  
www.weidmueller.com
- AU Australia**  
Weidmüller Pty. Ltd.  
P.O. Box 6944  
43 Huntingwood Drive  
Huntingwood NSW 2148  
Phone +61 2 9671 9999  
Fax +61 2 9671 9911  
info@weidmuller.com.au  
www.weidmuller.com.au
- AZ Azerbaijan**  
Representative Office  
Rashad Mahmudov  
40 A. J. Khandan Str. 68 Apt.  
AZ 1130 Baku  
Phone +994 50 2527002  
Fax +994 12 5961493  
rashad.mahmudov@  
weidmueller.com
- BA Bosnia and Herzegovina**  
BH ES ELEKTROSISTEM d.o.o.  
Palih boraca 104  
78000 BiH - Banja Luka  
Phone +387 51 420-340  
Fax +387 51 420-341  
elists@inecco.net  
www.elektrosistem.ba  
or  
Please contact our  
Representative Office  
Weidmüller Interface  
GmbH & Co. KG in Serbia.
- BE Belgium**  
Weidmüller Benelux B. V.  
Mechelsesteenweg 519  
bus 6 en 7  
1930 Nossegem  
Phone +32 2 752 40 70  
Fax +32 2 751 36 06  
info@weidmueller.be  
www.weidmueller.be
- BG Bulgaria**  
Weid-Bul EOOD  
13, Bul. „Kliment Ohridski“  
1756 Sofia  
Phone +359 2 963 2560  
Fax +359 2 963 1098  
sofia@weidbul.com  
www.weidbul.com
- BH Bahrain**  
Khayber Trading Company  
P.O. Box 1976 Manama  
Phone +973 720747  
Fax +973 720331  
khayber@batelco.com.bh
- BR Brazil**  
Weidmüller Conexel do Brasil  
Conexões Elétricas Ltda.  
R. Garcia Lorca, 176 -  
V. Paulicéia  
09695-900 São Bernardo  
do Campo, São Paulo  
Phone +55 (11) 4366-9600  
Fax +55 (11) 4362-1677  
vendas@weidmueller.com.br  
www.weidmueller.com.br
- BW Botswana**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.
- BY Belarus**  
TECHNIKON Ltd.  
Nezavisimosti pr. 177-9  
Minsk 220125  
Phone +375 17 393-11-77  
Fax +375 17 3930080  
wm@technikon.by
- CA Canada**  
W Interconnections Canada  
Inc.  
10 Spy Court, Markham  
Ontario L3R 5H6  
Phone +1 (905) 475-1507  
Ext. 8936  
Fax +1 (905) 475-2798  
support@weidmuller.ca  
www.weidmuller.ca
- CG Kongo**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.
- CH Switzerland**  
Weidmüller Schweiz AG  
Rundbuckstraße 2  
8212 Neuhausen am  
Rheinfall, SH  
Phone +41 52 674 07 07  
Fax +41 52 674 07 08  
info@weidmueller.ch  
www.weidmueller.ch
- CL Chile**  
Felipe Bahamondes S.A.  
ATS - INTECH  
María Luisa Santander 0475  
Providencia 7500859  
3425 Casilla - Santiago  
Phone +56 2 341 1271  
Fax +56 2 341 1275  
felipe@atsintech.com  
www.atsintech.com  
CPI CHILE LTDA  
Av. Presidente Frei Montalva  
6001-47 Conchalí  
RM - Santiago  
Phone +562 963 8440  
Fax +562 963 8440  
cpi@cpichile.cl  
www.cpichile.cl
- CN China**  
Weidmüller Interface  
(Shanghai) Co. Ltd.  
25 F, BM Intercontinental  
Business Center 100 Yutong  
Road  
200070 Shanghai  
Phone +86 21-22195008  
Fax +86 21-22195009  
customer.hotline@  
weidmueller.com.cn  
www.cnweidmuller.com
- CO Colombia**  
Automatización Avanzada S. A.  
Carrera 97 No. 24 c - 23 B 4  
4 Bogotá D. C.  
Phone +57 (1) 547-8510  
Fax +57 (1) 422-3044  
comercial@  
automatizacionavanzada.com  
www.automatizacionavanzada.  
com
- CR Costa Rica**  
ELVATRON S. A.  
la Uruca 400 Norte  
Banco Costa Rica  
San Jose Costa Rica  
Phone +506 2961-060  
Fax +506 5200-609  
dirk.haase@elvatron.com  
www.elvatron.com
- CZ Czech Republic**  
Weidmüller s.r.o.  
Lomnického 5/1705  
140 00 Praha 4  
Phone +420 244 001 400  
Fax +420 244 001 499  
office@weidmueller.cz  
www.weidmueller.cz
- DE Germany**  
Weidmüller GmbH & Co. KG  
Postfach 30 54  
32720 Detmold  
Ohmstraße 9  
32758 Detmold  
Phone +49 5231 1428-0  
Fax +49 5231 1428-116  
weidmueller@weidmueller.de  
www.weidmueller.de
- DK Denmark**  
Weidmüller Danmark  
Vallensbækvej 18A  
2805 Brøndby  
Phone +45 27747800  
kundeservice@weidmuller.dk  
www.weidmuller.dk
- EC Ecuador**  
Elsystec S. A., Electricidad  
Sistemas y Tecnología  
Vasco de Contreras N35-251  
y Mañosa,  
Pichincha, Quito  
Phone +593 22456510  
Fax +593 22456755  
Elsystec@uio.satnet.net
- EE Estonia**  
Soots Interface OÜ  
Pärnu mnt 142  
11317 Tallinn  
Phone +372 609 6933  
Fax +372 609 6933  
info@sootsinterface.ee  
www.sootsinterface.ee  
or  
Please contact our  
Representative Office  
Weidmüller Interface  
GmbH & Co. KG in Latvia.
- EG Egypt**  
Standard Electric (OMEGA)  
87, Mohamed Farid Street  
Cairo, Heliopolis  
Phone +20 2 642 2977  
Fax +20 2 642 2955  
stdelec@rite.com
- ES Spain**  
Weidmüller, S. A.  
Pol. Ind. Sudoste  
Narcís Monturiol 11-13  
08960 Sant Just Desvern -  
Barcelona  
Phone +34 934 803 386  
Fax +34 933 718 055  
weidmuller@weidmuller.es  
www.weidmuller.es
- FI Finland**  
Weidmüller Suomi,  
Weidmüller Aktiebolagetin  
sivulike  
Koy Plaza Vivace  
Äyritie 8C  
01510 Vantaa  
Phone +358 20 7351300  
Fax +358 800 114 667  
asiakaspalvelu@weidmuller.fi  
www.weidmuller.fi
- FR France**  
Weidmüller E. U. R. L.  
12, Chaussée Jules César  
B.P. 263 Osny  
95523 Cergy-Pontoise Cedex  
Phone +33 1 34 24 55 00  
Fax +33 1 34 24 55 01  
mail@weidmuller.fr
- GB Great Britain**  
Weidmüller Ltd.  
Klippon House  
Centurion Court Office  
Meridian East, Meridian  
Business Park  
Leicester  
Phone +44 116 282 3470  
Fax +44 116 289 3582  
marketing@weidmuller.co.uk  
www.weidmuller.co.uk
- GR Greece**  
G.A. Solutions  
11 Ippokratous str  
14452 Metamorfoosi  
Athen  
Phone +30 210 2823233  
Fax +30 210 2823233  
info@weidmuller.gr  
www.weidmuller.gr
- GT Guatemala**  
Prestelectro  
Prestegard Electro, S.A.  
Avenida Petapa 44-22,  
Zona 12  
Guatemala City  
Phone +502 2442-3346  
Fax +502 2476-8945  
ventas@prestelectro.com
- HK Hong Kong**  
Weidmüller (Hong Kong)  
Limited Co. Ltd.  
Unit 1617, Metropolis Tower  
No. 10 Metropolis Drive,  
Hungghom, Kowloon  
Phone +852 3154 8088  
Fax +852 31548099  
Info-hk@weidmueller.com.hk
- HR Croatia**  
ElektroPARTNER d.o.o.  
Slavonska avenija 24/6  
10000 Zagreb  
Phone +385 (1) 6184 793  
Fax +385 (1) 6184 795  
elektropartner@zg-t.com.hr  
www.elektropartner.hr
- HU Hungary**  
Weidmüller Kereskedelmi Kft.  
Gubacsi út 6,  
1097 Budapest  
Phone +36 1 382 7700  
Fax +36 1 382 7701  
info@weidmueller.hu  
www.weidmueller.hu
- ID Indonesia**  
PT. Negeri Electrindo  
Ruko Mega Grosir Cempaka  
Mas, Blok I No. 20 - 22  
Jl. Let. Jend. Suprato  
Jakarta 10640  
Phone +62 21 42882255  
Fax +62 21 42882266  
sales@negeroelectrindo.co.id
- IE Ireland**  
Please contact Weidmüller Ltd.  
in Great Britain.
- IL Israel**  
A. U. Shay Ltd.  
P.O. Box 1 00 49  
Embar Street 23/25  
49222 Petach-Tikva  
Phone +972 3-923-3601  
Fax +972 3-923-4601  
shay@uriel-shay.com  
www.uriel-shay.com  
ATEKA Ltd.  
P.O.Box 4710 Petach-Tikva  
4, Ha Tavor lane Industrial  
area Segula  
49691 Petach-Tikva  
Phone +972 73-200-1311  
Fax +972 3-924 4245  
marketing@ateka.co.il  
www.ateka.co.il
- IN India**  
Representative Office  
Weidmüller Electronics  
India Pvt. Ltd.  
Plot No. 32, 12th Lane,  
North Court Lane  
North Avenue, 3rd Floor  
Opp Joggars Park,  
Kalyaninagar  
411006 Pune  
Maharashtra  
Phone +91 20-41290090  
Ntish.Rajan@weidmueller.de  
www.weidmueller.com
- IS Iceland**  
Samey Automation Center  
Lyngas 13, 210 Garoabaer  
Phone +354 510 5200  
Fax +354 5 10 5201  
Samey@samey.is  
www.samey.is
- IT Italy**  
Weidmüller S. r.l.  
Via Albert Einstein 4  
20092 Cinisello Balsamo  
Milano  
Phone +39 02 660681  
Fax +39 02 6124945  
weidmuller@weidmuller.it  
www.weidmuller.it
- JM Jamaica**  
Please contact W  
Interconnections Inc.  
United States.
- JO Jordan**  
Trans Jordan for Electro  
P.O. Box 33 06 07  
Amman  
Phone +962 6 533 2020  
Fax +962 6 533 5800  
transjordan@batelco.jo
- JP Japan**  
Nihon Weidmüller Co. Ltd.  
Sphere Tower Tennoz  
2-2-8 Higashi-Shinagawa  
Shinagawa-Ku  
P.O. Box 140-0002  
Tokyo  
Phone +81 3 6711 5300  
Fax +81 3 6711 5333  
weidmullerjapan@  
weidmuller.co.jp  
www.weidmuller.co.jp
- KE Kenya**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.
- KR Korea**  
Weidmüller Korea Co. Ltd.  
6F Seokyoung B/D  
242-54 Nonhyun-dong  
Gangnam-gu  
Seoul, 135-830  
Phone +82 2-516-0003  
Fax +82 2-516-0090  
info@weidmuller.co.kr  
www.weidmuller.co.kr
- KZ Kazakhstan**  
Representative Office  
Weidmüller Business  
Center Rixos Almaty Hotel  
4 floor, 506/99, Seifullina  
Avenue,  
050012 Almaty  
Sergey.Shin@weidmueller.com  
www.weidmueller.kz
- LT Lithuania**  
ELEKTROS IRANGA  
Tinklu g. 29 a, 5319,  
Panevezys  
Phone +370 (45) 582 828  
Fax +370 (45) 582 727  
info@eliranga.lt  
or  
Please contact our  
Representative Office  
Weidmüller Interface  
GmbH & Co. KG in Latvia.
- LU Luxembourg**  
Please contact  
Weidmüller Benelux B. V.  
Netherlands.
- LV Latvia**  
SIA Abi4  
Daugavgrivas 31b  
1007 Riga  
Rigas Rajons  
Phone +371 674 70999  
Fax +371 674 65637  
abi\_4@tvnet.lv
- MD Moldova**  
ERHORD A & D srl  
79/1, str. Milesoi Spartaru  
MD2075 Chisinau, Moldova  
Phone +373 (22) 815002  
Fax +373 (22) 815007  
atiuleanu@berhord.com  
www.ad.berhord.com
- ME Montenegro**  
Please contact our  
Representative Office  
Weidmüller Interface  
GmbH & Co. KG in Serbia.
- MG Madagascar**  
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Interface (Pty) Ltd. in  
South Africa.

Sales company **DE**

Agency abroad **DE**

Without own Agency **DE**

**MK Macedonia**  
ELEKTRO - SMK doel  
UL. III Makedonska brigada b.b.  
1000 Skopje  
Phone +389 22460295  
Fax +389 22460298  
Elektro-smk@telekabel.net.mk  
or

Please contact our  
Representative Office  
Weidmüller Interface  
GmbH & Co. KG in Serbia.

**MT Malta**  
E. S. S., Electrical Supplies &  
Services Ltd.  
104 J. Sciberras Str.  
Hamrun HMR 08  
Phone +356 21255777  
Fax +356 21255999  
robert@ess.com.mt

**MU Mauritius**  
Mubelo Electrical Ltd.  
Office 26, Gateway building,  
St Jean Road,  
Quatre Bornes  
Mauritius  
Phone +230 4670989  
Fax +230 4654051  
richard.mubelo@orange.mu

**MW Malawi**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**MX Mexico**  
W Interconnections S. A.  
DE C. V.  
Blvd. Hermanos Serdán 698  
Col. San Rafael Oriente  
Puebla, C. P. 72029  
Phone +52 (222) 268 6227  
Fax +52 (222) 286 6242  
clientes@weidmuller.com.mx

**MY Malaysia**  
Connect Plus Technology  
Sdn Bhd  
No. 43, Jalan PJS 11/22,  
Bandar Sunway  
46150 Petaling Jaya  
Selangor Darul Ehsan  
Phone +60 3 5633 7363  
Fax +60 3 5633 6562  
paul@cpotech.com.my  
www.cpotech.com.my

**MZ Mosambik**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**NA Namibia**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**NG Nigeria**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**NL Netherlands**  
Weidmüller Benelux B. V.  
Franciscusweg 221  
1216 SE Hilversum  
Postbus 1505  
1200 BM Hilversum  
Noord-Holland  
Phone +31 35 626 12 61  
Fax +31 35 623 20 44  
info@weidmuller.nl  
www.weidmuller.nl

**NO Norway**  
Sivilingenier J.F. Knudtzen AS  
P.O. Box 160  
1378 Nesbru Billingstad  
Billingstadsletta 97  
1396 Billingstad  
Phone +47 66 98 33 50  
Fax +47 66 98 09 55  
firmapost@jfkknudtzen.no  
www.jfkknudtzen.no

**NZ New Zealand**  
Cuthbert S. Steward Ltd.  
27 Te Puni Street  
POB 38496  
Petone, Wellington  
Phone +64 4 568 6156  
Fax +64 4 568 6056  
info@weidmuller.de

**OM Oman**  
DAN INTERNATIONAL LLC.  
P.O. BOX 2901  
Ghala St. 111  
Seeb  
Phone +968 5036 77  
Fax +968 5037 55  
yedu@danintl.com

**PE Peru**  
IMPEXINCA S.A.C.  
Calle Ortiz de Zevallos No.  
105, Urb. San Antonio  
18 Lima, Miraflores  
La Libertad  
Phone +51 1 447 5608  
info@impexinca.pe  
www.impexinca.pe

J & W CIA. S. A.  
Calle 6 Mz. D Lte. 23, Urb.  
Ind. Grimanesa  
Callao 01  
Phone +51 1 572 2539  
Fax +51 1 572 0152  
contacto@jwcia.com  
www.jwcia.com

**PH Philippines**  
Enclosure Systems Specialists  
Inc.  
Room 103/105 Narra Building  
2276 Don Chino Roces Avenue  
Extension  
Makati City 1231  
Phone +63 2 813 8580  
Fax +63 2 813 859  
sales\_encsys@pdttdsl.net  
www.enclosuresystemsp.com

**PK Pakistan**  
Kana Controls (Pak)  
Apartment No. 33 C III  
Chenab Block  
Allama Iqbal Town  
Lahore  
Phone +92 42 54 199-48, -49  
Fax +92 42 54 22895  
nadeem@kanapak.com  
www.kanapak.com

**PL Poland**  
Weidmüller Sp. z o. o.  
ul. Ogrodowa 58  
00-876 Warszawa  
Phone +48 22 510 09 40  
Fax +48 22 510 09 41  
biuro@weidmuller.pl  
www.weidmuller.pl

**PR Puerto Rico**  
Please contact W Interconnections  
Inc. United States.

**PT Portugal**  
Weidmüller Sistemas de  
Interface S. A.  
Estrada Outeiro Polima  
R. Augusto  
Dias da Silva, Lote B - Esct. 2  
2785-515 Abóboda  
São Domingos de Rana  
Phone +351 214 459 191  
Fax +351 214 455 871  
weidmuller@weidmuller.pt  
www.weidmuller.pt

**PY Paraguay**  
Please contact CPI SA in  
Argentina.

**RO Romania**  
Representative Office  
Weidmüller Interface  
GmbH & Co. KG  
Brasov Business Park  
Ionescu Crum Street, No. 1  
1<sup>st</sup> Tower, 1<sup>st</sup> Floor, Office 4  
500446 Brasov  
Phone +40 (268) 446 222  
Fax +40 (268) 446 224  
claudiu.totea@weidmuller.com  
www.weidmuller.com

**RS Serbia**  
ES-YU Elektrosistem d.o.o.  
Pariske komune 41  
11070 Novi Beograd  
Phone +381 113018660  
Fax +381 112693608  
esyu@eunet.rs  
www.elektrosistem.co.rs

Representative Office  
Weidmüller Interface  
GmbH & Co. KG  
Ustanička 199,  
III sprat lokal 7a  
11050 Beograd  
Phone +381 112885274  
Fax +381 112885274  
zoran.rabrenovic@  
weidmuller.com

**RU Russia**  
OOO Weidmüller  
Varshavskoye highway,  
25 A, bld. 6  
117105 Moskau  
Phone +7 (495) 771-69-40  
Fax +7 (495) 771-69-41  
Info@weidmuller.ru  
www.weidmuller.ru

**SA Saudi Arabia**  
Please contact Weidmüller  
Middle East FZE  
United Arab Emirates.

**SE Sweden**  
Weidmüller AB  
Box 31025  
S-200 49 Malmö  
Axel Danielssons väg 271  
Skåne län  
Phone +46 77-143 00 44  
Fax +46 40-37 48 60  
info@weidmuller.se  
www.weidmuller.se

**SG Singapore**  
Weidmüller Pte. Ltd.  
70 Bendemeer Road  
04-03 Luzerne Building  
339940 Singapore  
Phone +65 6841 5311  
Fax +65 6841 5377  
info@weidmuller.com.sg  
www.weidmuller.com.sg

**SI Slovenia**  
Elektrospojji d. o. o.  
Stegne 25  
1000 Ljubljana,  
Osrednjeslovenska  
Phone +386 1 511 3810  
Fax +386 1 511 1604  
info@elektrospojji.si  
www.elektrospojji.si

**SK Slovakia**  
ELEKTRIS s.r.o.  
Elektrárenská 1  
831 04 Bratislava  
Phone +421 2/4920 0113  
Fax +421 2/4920 0119  
bratislava@elekttris.sk

**SV El Salvador**  
Prestegard Electro  
11 Avenida Norte No. 240  
Edificio Salazar No. 2  
San Salvador  
Phone +503 2271 1690  
Fax +503 2221 3851  
prestegard@navegante.com.sv

**SY Syria**  
Please contact Weidmüller  
Middle East FZE  
United Arab Emirates.

**SZ Swaziland**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**TH Thailand**  
Pisanu Engineering Co. Ltd.  
800/2 Soi Trakulsuk,  
Asoke-dindaeng Road  
Dindaeng, Bangkok 10400  
Phone +66 2 248 2896  
Fax +66 2 642 9220  
ecsales@pisanu.co.th  
www.pisanu.co.th

Representative Office  
Weidmüller Pte. Ltd.  
98 North Sathorn Road  
37/F, Sathorn Square Building  
Silom Bangkok  
Bangkok 10500  
Phone +662 105 6300  
Fax +662 105 6301  
info@weidmuller.com.sg

**TN Tunisia**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**TR Turkey**  
Weidmüller Elektronik  
Ticaret Ltd. Sirketi  
Kayaçik Mah. Orhan Veli  
Kanik Caddesi 9/1  
34810 Beykoz - Istanbul  
Phone +90 (216) 537 10 70  
Fax +90 (216) 537 10 77  
info@weidmuller.com.tr  
www.weidmuller.com.tr

**TW Taiwan**  
F Weidmüller  
(Hong Kong) Limited  
No. 3, Lane 89, ChaungYang  
N. Rd. SanChuang City  
24148 SanChuang City, Taipei  
Phone +886 921 949 751  
roy.lin@weidmuller.com.hk

**TZ Tanzania**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**UA Ukraine**  
TEKO INTERFACE  
Lomonosova Str. 73 g  
03022 Kiev  
Phone +380 (44) 374 06 40  
Fax +380 (44) 374 06 42  
weidmuller@tekointerface.com  
www.tekointerface.com.ua

**US United States**  
W Interconnections Inc.  
821 Southlake Boulevard  
Virginia - Richmond 23236  
Phone +1 (804) 794-2877  
Fax +1 (804) 379-2593  
info@weidmuller.com  
www.weidmuller.com

**UZ Republic of Uzbekistan**  
Please contact our  
Representative Office  
Weidmüller Business Center  
Rixos Almaty Hotel in  
Kazakhstan.

**VN Vietnam**  
AUMI Industrial Equipment &  
Automation Company Limited  
E1, La Thanh Hotel,  
218 Doi Can Street,  
Lieu Giai Ward, Ba Dinh District  
Hanoi City  
Phone +84 4 37628601  
Fax +84 4 62661391  
aumi@aumi.com.vn  
www.aumi.com.vn

Representative Office  
Weidmüller Pte. Ltd.  
Level 16 Saigon Tower Building  
29 Le Duan Street, District 1  
Ho Chi Minh  
Phone +848 3520 7717  
Fax +848 3520 7604  
info@weidmuller.com.sg

**ZA South Africa**  
Phambili Interface (Pty) Ltd.  
P.O. Box 193,  
1609 Johannesburg, Edenvale  
5 Bundo Road, Sebenza  
1610 Johannesburg  
Phone +27 (11) 4521930  
Fax +27 (11) 4526455  
info@weidmuller.co.za  
www.weidmuller.co.za

**ZM Zambia**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**ZW Zimbabwe**  
Please contact Phambili  
Interface (Pty) Ltd. in  
South Africa.

**DE Other countries**  
Weidmüller Interface GmbH  
& Co. KG  
Postfach 3030  
32720 Detmold  
Klingenbergsstraße 16  
32758 Detmold  
Phone +49 5231 14-0  
Fax +49 5231 14-292083  
info@weidmuller.de  
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Weidmüller Interface GmbH & Co. KG  
Klingenbergstraße 16  
32758 Detmold, Germany  
T +49 5231 14-0  
F +49 5231 14-292083  
info@weidmueller.com  
www.weidmueller.com

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