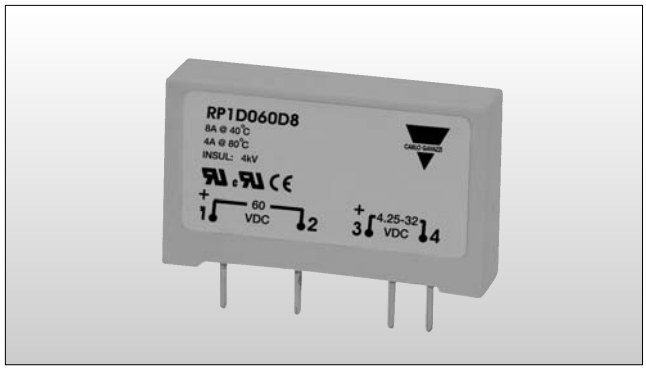
Solid State Relays
PCB, 1-Phase DCS
Type RP1D



- **DC Solid State Relay for PCB mounting**
- **Rated operational current: Up to 8 ADC**
- **Rated operational voltage: Up to 350 VDC**
- **Surface mount technology**
- **Flexible encapsulation for extended life**
- **Control voltage: 4.25 to 32 VDC**
- **Insulation (Input - Output): 4000 VACrms**

Product Description

The DC switching relay for PCB mounting is used in applications where there is a need for fast switching of small DC loads with a high input/output insulation of more than 4000 VACrms. The DC switching relay always switches on and off in accordance with the applied control voltage.

Ordering Key

RP 1 D 060 D 8

- **Solid State Relay (PCB)**
- **Number of poles**
- **Switching mode**
- **Rated operational voltage**
- **Control voltage**
- **Rated operational current**

Type Selection

Switching mode	Rated operational voltage	Control voltage	Rated operational current
D: DC switching	060: 60 VDC 350: 350 VDC	D: 4.25 to 32 VDC	1: 1 ADC 4: 4 ADC 8: 8 ADC

Selection Guide

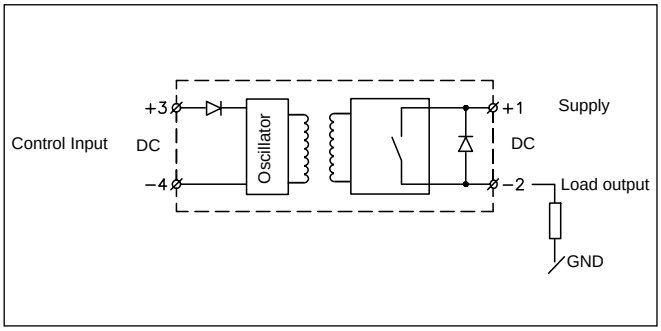
Rated operational voltage	Control voltage	Rated operational current 1 ADC	4 ADC	8ADC
60 VDC	4.25 to 32 VDC		**RP1D060D4***	**RP1D060D8***
350 VDC	4.25 to 32 VDC	**RP1D350D1**		

* add suffix 'M1' to part no. for DIN rail mountable module, example: RP1D060D4M1

General Specifications

	RP1D060...	RP1D350...
Operational voltage range	1 to 60 VDC	1 to 350 VDC
Off-state blocking voltage	60 VDC	350 VDC
CE-marking	Yes	Yes
Approvals	UL, cUL	UL, cUL

Wiring Diagram



Housing Specifications

Weight	Approx. 20 g
Housing material	PBT, grey
Terminals	Copper alloy, tin-plated
Potting compound	Flame-retardant flexible silicone rubber

Thermal Specifications

Operating temperature	-20° to +80°C (-4° to +176°F)
Storage temperature	-40° to +100°C (-40° to +212°F)

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Output Specifications

		RP1D350D1	RP1D060D4	RP1D060D8
Rated operational current @ Ta=40°C	DC1	1 ADC	4 ADC	8 ADC
	DC5	1 ADC	4 ADC	8 ADC
	DC13	1 ADC	4 ADC	8 ADC
Minimum operational current		1 mADC	1 mADC	1 mADC
Rep. overload current t=1 s		20 ADC	15 ADC	60 ADC
Off-state leakage current @ rated voltage		< 0.01 mADC	< 0.01 mADC	< 0.01 mADC
On-state voltage drop @ rated current		< 0.5 VDC	< 0.5 VDC	< 1.0 VDC

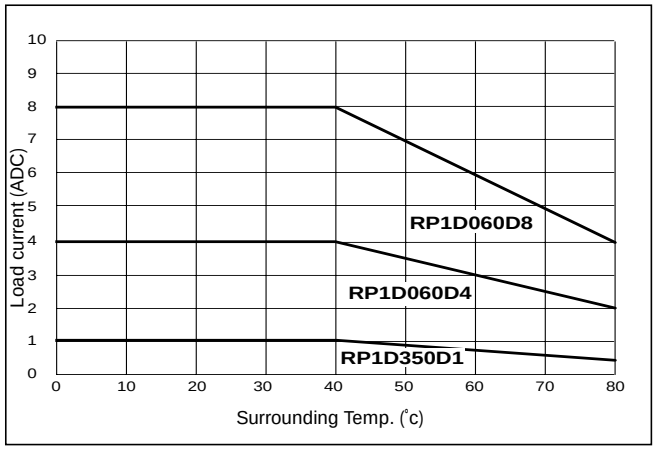
Input Specifications

Control voltage range	4.25 to 32 VDC
Pick-up voltage @ Ta=25°C	3.3 VDC
Drop-out voltage	1 VDC
Reverse voltage	32 VDC
Switching frequency	< 100 Hz
Response time pick-up @ Vin ≥ 5 VDC	< 100 µs
Response time drop-out @Vin ≤ 24 VDC max.	< 250 µs
Input current	15mA

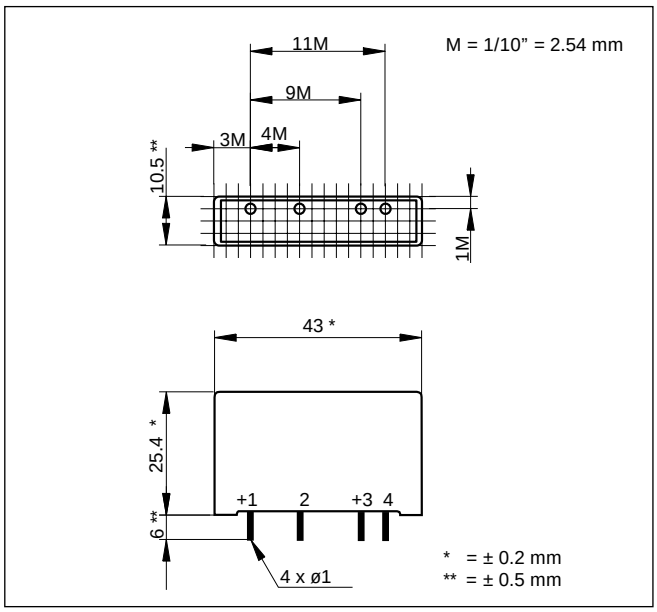
Insulation Input - Output

Rated insulation voltage	> 4000 VACrms

Derating Curve



Dimensions



Accessories



M1 Din-rail adaptor (photo)
Fuses
For further information refer to "General Accessories".

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