

General Specifications

Item	Model	DRT2-ID04CL(-1)	DRT2-OD04CL(-1)	DRT2-ID08CL(-1)	DRT2-OD08CL(-1)	DRT2-HD16CL(-1)	DRT2-WD16CL(-1)	DRT2-MD16CL(-1)
Communications power supply voltage	11 to 25 VDC (Supplied from the communications connector)							
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC -15%/+10%)							
Noise immunity	Conforms to IEC 61000-4-4 2 kV (power line)							
Communications power supply current consumption	35mA max. (24 VDC) 55mA max. (11 VDC)		35mA max. (24 VDC) 50mA max. (11 VDC)		40mA max. (24 VDC) 55mA max. (11 VDC)	35mA max. (24 VDC) 55mA max. (11 VDC)	40mA max. (24 VDC) 55mA max. (11 VDC)	
Vibration resistance	10 to 60 Hz with double-amplitude of 0.7 mm, 60 to 150 Hz and 50 m/s ² in X, Y, and Z directions for 80 min each							
Shock resistance	150m/s ² , 6 directions, 3 times each							
Dielectric strength	500 VAC between isolated circuits							
Insulation resistance	20 MΩ min. (between isolated circuits)							
Ambient operating temperature	-10°C to 55°C							
Ambient operating humidity	25% to 85% (with no condensation)							
Ambient operating atmosphere	No corrosive gases							
Ambient storage temperature	-20°C to 65°C							
Degree of protection	IP67							
Mounting method	M5 screw mounting (front and back)							
Mounting strength	100 N							
Connector strength	30 N							
Screw tightening torque	Round connectors (communications, supply voltage, and I/O): 0.39 to 0.49 N·m M5 (Unit mounting from front): 1.47 to 1.96 N·m							
Weight	275 g max.		390 g max.					
I/O power supply connector	7/8-16UN							
Communications connector	M12							

Input Specifications

● 4-input Models

Item	Model	DRT2-ID04CL	DRT2-ID04CL-1
Internal I/O common		NPN	PNP
I/O points	4 inputs		
ON voltage		15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage		5 VDC max. (between each input terminal and V)	5 VDC max. (between each input terminal and G)
OFF current	1.0 mA max.		
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC		
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC -15%/+10%)		
ON delay time	1.5 ms max.		
OFF delay time	1.5 ms max.		
Number of circuits per common	4 per common		

● 16-input Models

Item	Model	DRT2-HD16CL	DRT2-HD16CL-1
Internal I/O common		NPN	PNP
I/O points	16 inputs		
ON voltage		15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage		5 VDC max. (between each input terminal and V)	5 VDC max. (between each input terminal and G)
OFF current	1.0 mA max.		
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC		
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC -15%/+10%)		
ON delay time	1.5 ms max.		
OFF delay time	1.5 ms max.		
Number of circuits per common	16 per common		

● 8-input Models

Item	Model	DRT2-ID08CL	DRT2-ID08CL-1
Internal I/O common		NPN	PNP
I/O points	8 inputs		
ON voltage		15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage		5 VDC max. (between each input terminal and V)	5 VDC max. (between each input terminal and G)
OFF current	1.0 mA max.		
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC		
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC -15%/+10%)		
ON delay time	1.5 ms max.		
OFF delay time	1.5 ms max.		
Number of circuits per common	8 per common		

● 8-input/8-output Models

Item	Model	DRT2-MD16CL	DRT2-MD16CL-1
Internal I/O common		NPN	PNP
I/O points	8 inputs		
ON voltage		15 VDC min. (between each input terminal and V)	15 VDC min. (between each input terminal and G)
OFF voltage		5 VDC max. (between each input terminal and V)	5 VDC max. (between each input terminal and G)
OFF current	1.0 mA max.		
Input current	6.0 mA max. per point at 24 VDC 3.0 mA max. per point at 17 VDC		
I/O power supply voltage	20.4 to 26.4 VDC (24 VDC -15%/+10%)		
ON delay time	1.5 ms max.		
OFF delay time	1.5 ms max.		
Number of circuits per common	8 per common		