

Specifications

General Specifications

Common SmartSlice Specifications	
Unit power supply voltage	24 VDC (20.4 to 26.4 VDC)
I/O power supply voltage	24 VDC (20.4 to 26.4 VDC)
I/O connection	Screwless push-in technology
Noise immunity	Conforms to IEC61000-4-4, 2.0 kV (power supply line)
Vibration resistance	10 to 60 Hz: 0.7 mm double amplitude 60 to 150 Hz: 50 m/s ²
Shock resistance	150 m/s ² , 3 times in each direction
Dielectric strength	500 VAC (between isolated circuits)
Insulation resistance	20 MΩ min. (between isolated circuits)
Ambient operating temperature	-10 to 55°C (with no icing or condensation)
Ambient operating humidity	25% to 85%
Operating environment	No corrosive gases
Ambient storage temperature	-25 to 65°C (with no icing or condensation)
Mounting	35 mm DIN rail

Communication Units

Model name	GRT1-PNT	GRT1-PRT	GRT1-DRT	GRT1-CRT	GRT1-ML2	GRT1-ECT
Network Specification	PROFINET-IO	PROFIBUS-DPV1	DeviceNet	CompoNet	MECHATROLINK-II for Trajexia	EtherCAT for Trajexia and Sysmac (NJ)
Network connector	2 x RJ45, built-in switch with support for MRP redundancy.	9-pin D-Sub	Open-style DeviceNet connector, dual screwless push-in dual connections.	4-pin CompoNet	2 x ML-II	2 x RJ45
Network interface power supply	Internal		External, 11 to 25 VDC, 22 mA	Internal		External 24 VDC (+10% - 15%)
Number of I/O points	1,024 inputs and outputs max. (128 bytes total)			32 bytes input + 32 bytes output max.	1,024 inputs and outputs max. (128 bytes total)	1,024 inputs and outputs max. (128 bytes total)
Number of connectable Units	64 SmartSlice I/O Units max.					
I/O power supply	24 VDC, 4 A max.					
Status flags	1 word for Communications Unit status flags					
Parameter backup and restore	up to 2 KB of data per I/O Unit.					

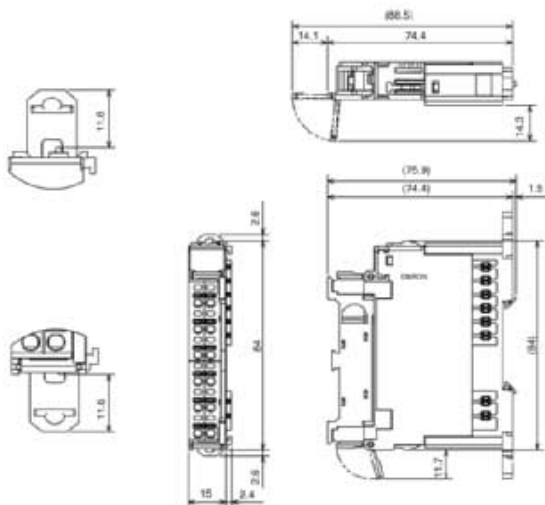
Digital Input Units

Model name	GRT1-ID4	GRT1-ID4-1	GRT1-ID8	GRT1-ID8-1
Signal type	DC input (for sinking outputs, NPN type)	DC input (for sourcing outputs, PNP type)	DC input (for sinking outputs, NPN type)	DC input (for sourcing outputs, PNP type)
Number of input points	4 inputs		8 inputs	
Power terminals	4 x V (24 V) + 4 x G (0 V)		4 x G (0 V)	4 x V (24 V)
ON voltage	15 VDC min.			
ON current	6 mA max./point (at 24 VDC)		4 mA max./point (at 24 VDC)	
OFF voltage	5 VDC max.			
OFF current	1 mA max.			
ON delay / OFF delay	1.5 ms max.			

Model name	GRT1-IA4-1	GRT1-IA4-2
Signal type	AC input, 110 V	AC input, 230 V
Number of input points	4 inputs	
Power terminals	None	
Input voltage	100 to 120 VAC -15% to +10%, 50/60 Hz	200 to 240 VAC -15% to +10%, 50/60 Hz
ON voltage	70 VAC min.	120 VAC min.
ON current	4 mA min.	
OFF voltage	20 VAC max.	
OFF current	2 mA max.	
ON delay / OFF delay	10 ms max./55 ms max.	10 ms max./40 ms max.

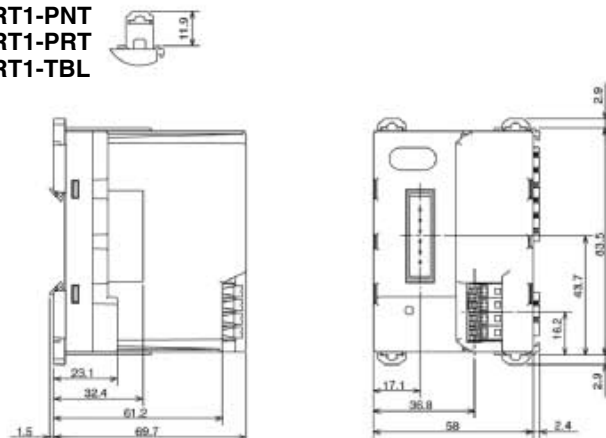
Dimensions

I/O-units



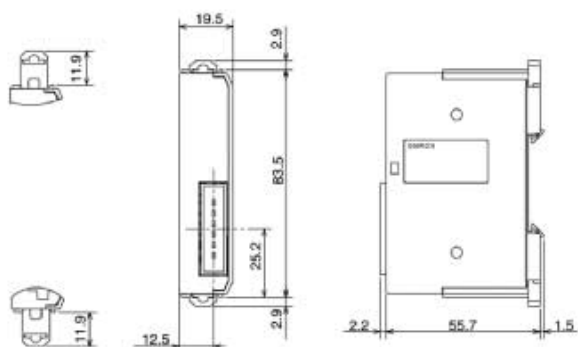
Communication Units

GRT1-CRT
GRT1-DRT
GRT1-ECT
GRT1-ML2
GRT1-PNT
GRT1-PRT
GRT1-TBL



End units

GRT1-END
GRT1-END-M
GRT1-TBR



Ordering Information

Communication Units

Function	Specification	Model code
DeviceNet interface unit	For up to 64 I/O units	84x58x70 GRT1-DRT
CompoNet interface unit	For up to 64 I/O units (limited to 32 byte in + 32 byte out)	84x58x70 GRT1-CRT
PROFIBUS-DP interface unit	For up to 64 I/O units	84x58x70 GRT1-PRT
PROFINET-IO interface unit	For up to 64 I/O units	84x58x70 GRT1-PNT
MECHATROLINK-II interface unit	For up to 64 I/O units (slave to Trajexia motion controller)	84x58x70 GRT1-ML2
EtherCAT interface unit	For up to 64 I/O units (slave to Trajexia and Sysmac controllers)	84x58x70 GRT1-ECT
End plate	One unit required per bus interface	84x20x58 GRT1-END
End plate with memory function	Supports toolless replacement of PROFINET-IO interface unit	84x20x58 GRT1-END-M