

DRR460

Controller / Regolatore



2 Model identification

DRR460-12A-T128	Power supply 24Vdc \pm 15% + 1 analogue input + 2 logic output 24Vdc/50mA + 1 output 0/420mA + RS485 +C.T.
DRR460-12A-CAN	Power supply 24Vdc \pm 15% + 1 analogue input + 2 logic output 24Vdc/50mA + 1 output 0/420mA + CANopen +C.T.

3 Technical data3.1 Main features

Operating temperature	0-45°C, humidity 3595uR%
Contenitore	DIN43880, 18 x 90 x 64 mm
Material	Box: PC UL94V0 self-extinguishing; front panel: PC UL94V0 self-extinguishing
Protezione	IP20 (box and terminal blocks)
Peso	Approx. 30 g

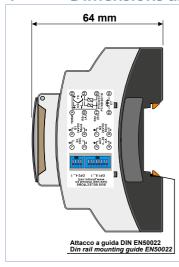
3.2 Hardware Features

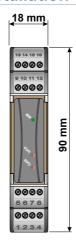
3.2 Halu	waie realules	
Power supply	24 VDC ±15%	Consumption: 3 VA
Analogue input	1: AN1 Configurable via software.	Tolerance (25 °C)
	Input: Thermocouple type K, S, R, J,	+/-0.3% ±1 digit (su F.s.) for
	T, E, N, B. Automatic compensation of	thermocouple, thermoresistance and
	cold junction from 050°C.	V/mA.
	Thermoresistance: PT100, PT500,	Cold junction accuracy 0.1 °C/°C
	PT1000, Ni100, PTC1K, NTC10K (β	
	3435K).	Impedence:
	Input V/I : 0-10 V, 0-20 or 4-20 mA, 0-60	0-10 V : Ri>110 kΩ
	mV.	0-20 mA : Ri<50 Ω
	Pot. input : Configurable 1150k Ω ,	4-20 mA : Ri<50 Ω
	1: C.T.: 50 mAAC 50/60 Hz	0-60 mV : Ri>500 kΩ
	2 SSR.	
Logic output	Configurable as command or alarm	+24VDC ±15%/ 50mA
	output	
Analogue output	1 0/420 mA. Configurable as command output, alarm output or retransmission	020 mA:
		42500 points, ±0.3% on F.S.
		420 mA
		34000 points, ±0.3% on F.S.

3.3 Software features

5.5 Software reactives		
Regulation	ON-OFF with hysteresis.	
algorithms	P, PI, PID, PD proportional time.	
Proportional band	0999°C or °F	
Integral time	0,0999,9 s (0 excludes integral function)	
Derivative time	0,0999,9 s (0 excludes derivative function)	
Controller functions	Manual or automatic tuning, configurable alarm, Start/Stop.	

4 Dimensions and Installation





5 Electrical wirings

This controller has been designed and manufactured in conformity to Low Voltage Directive 2014/35/EU (LVD) and EMC Directive 2014/30/EU (EMC). For installation in industrial environments please observe following safety guidelines:

- · Separate control line from power wires.
- Avoid proximity of remote control switches, electromagnetic contactors, powerful engines and use specific filters.
- Avoid proximity of power groups, especially those with phase control.
- It is strongly recommended to install adequate mains filter on power supply of the machine where
 the controller is installed, particularly if supplied 230Vac. The controller is designed and conceived
 to be incorporated into other machines, therefore CE marking on the controller does not exempt
 the manufacturer of machines from safety and conformity requirements applying to the machine
 itself.
- Wiring of pins use crimped tube terminals or flexible/rigid copper wire with diameter 0.25 to 1.5 mm2 (min. AWG28, max. AWG16, operating temperature: min. 70°C). Cable stripping length 7 to 8 mm.

5.1 Wiring diagram



5.1.a	Power Supply	
24 VDC	Power supply 24 VDC ±15% – 3 VA	