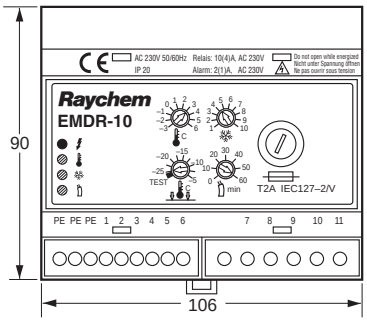
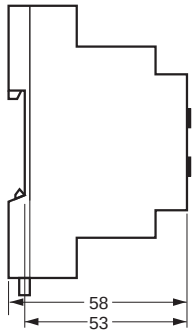
Temperature and moisture control unit EMDR-10

Technical data





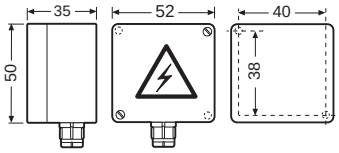
(Dimensions in mm)

Supply voltage	230 VAC, ±10%, 50Hz
Power consumption	max. 4 VA
Max. switching capacity	I_{max} 10(4)A / 230 VAC, SPST, potential 230 VAC
Temperature adjustment range	−3°C to +6°C (factory setting +2°C)
Lower limit temperature adjustment range	test, −25°C to −5°C (factory setting −15°C)
Operating differential	±0.5 K
Measuring accuracy	±1.5 K
Moisture adjustment range	1 (max. sensibility) to 10 (min. sensibility) (factory setting 5)
Post heating time adjustment range	0 to 60 minutes (factory setting 60 minutes)
Alarm relay	I_{max} 2(1)A / 230 VAC, SPDT, potential-free
Moisture sensor (output)	I_{max} 315mA / 230 VAC, with fuse 5 x 20mm T 315mA according to IEC127-2/V
Mounting	DIN rail according to DIN EN 50022-35
Low voltage directive	EN 60730
EMC	EN 50081-1 (emission) and EN 50082-1 (immunity)
Terminals	2.5 mm² (stranded conductors), 4 mm² (solid conductors)
Protection class	II (panel mounted)

Housing

Ambient temperature range	0°C to +50°C
Ingress protection	IP20
Housing material	Noryl (self-extinguishing according to UL 94 V-0)
Weight	approx. 350 g

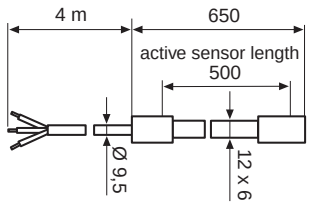
Ambient temperature sensor (VIA-DU-A10)



PG9 (Dimensions in mm)

Sensor type	PTC (FL 103)
Ingress protection	IP54
Terminals	2.5 mm²
Sensor cable	2 x 1.5 mm², max. 100 m (not included)
Exposure temperature	−30°C to +80°C
Mounting	Wall mounting

Moisture sensor (HARD-45)



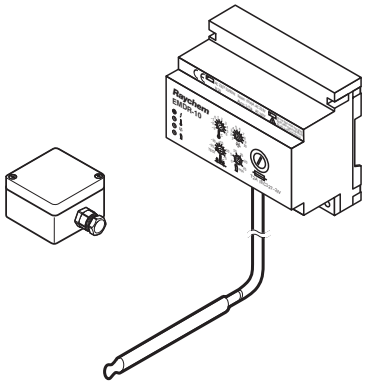
(Dimensions in mm)

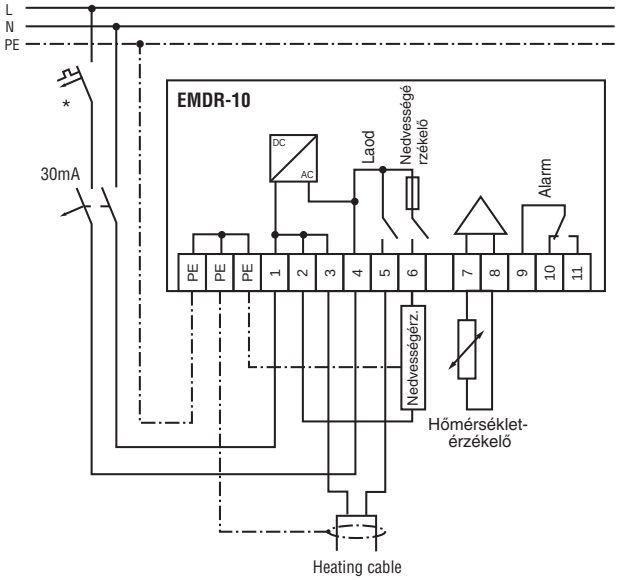
Sensor type	PTC
Power consumption	9 W to 18 W
Ambient temperature range	−30°C to +65°C continuous
Supply voltage	230 VAC, ±10%, 50Hz
Connection cable	3 x 1.5 mm², 4 m, the connection cable can be extended to max. 100 m at 3 x 1.5 mm

Frost protection for gutters and downpipes

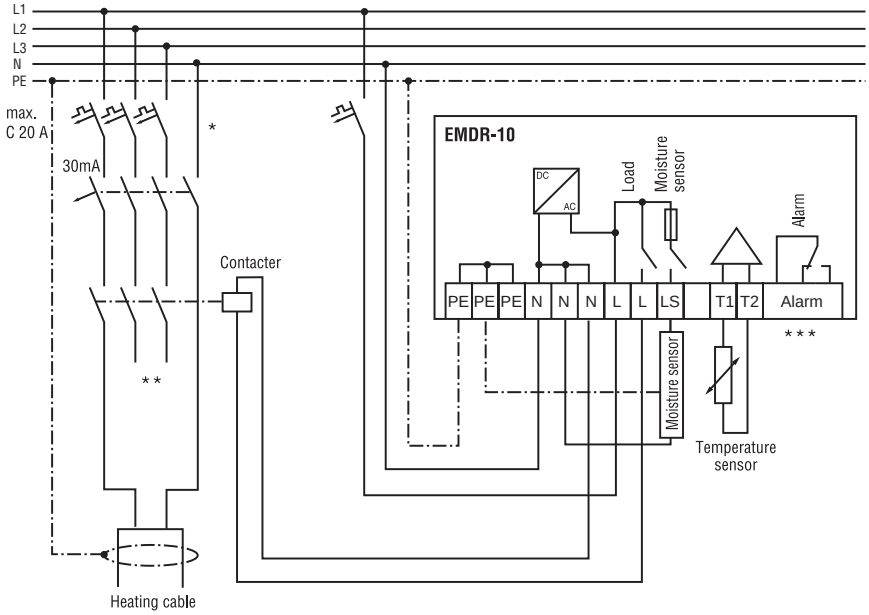
Wiring diagram for EMDR-10

EMDR-10 without contactor





EMDR-10 with contactor



* Two- or four-pole electrical protection by circuit breaker may be needed for local circumstances, standards and regulations

** Depending on the application, one or three-pole circuit breakers or contactors may be used

*** Potential-free alarm contacts for connection to the BMS