



At a glance

Applications



Frost protection



Temperature maintenance



Silos, containers, tanks



Pipelines, valves, pumps

- › Power plants
- › Chemical industry
- › Petrochemical industry
- › Oil and gas industry
- › Pharmaceutical industry
- › Plastics industry
- › Process technology

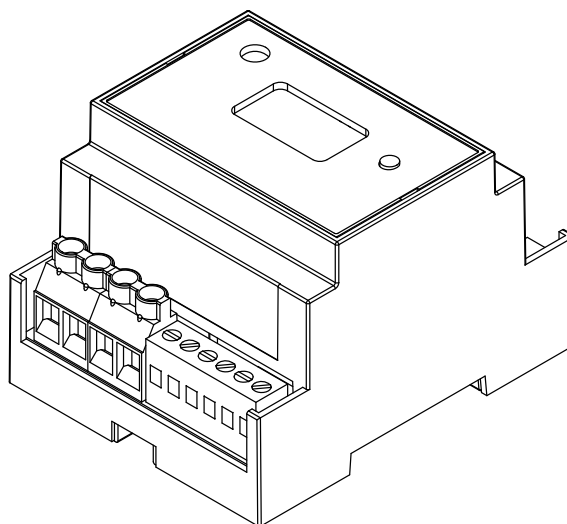
Advantages

- › OLED display
- › High switching capacity
- › Compact design
- › Convenient operation
- › Two-pole switch-off

Approvals

Smart Limiter


Temperature Limiter



The Smart Limiter electronic temperature limiter was developed for use with electrical trace heating systems in potentially explosive atmospheres for DIN rail mounting. The Smart Limiter is characterized by a high switching capacity - all-pole up to 30 A - combined with a compact design of 4 DU. The convenient operation and parameterization via Wi-Fi as well as the „smart“ switching behaviour are further features of the limiter. It only switches off when the set maximum temperature is reached, provided the temperature controller has not been deactivated beforehand and there is therefore a critical excess temperature. In practice, this means, for example, that a steam flush of the system can be carried out without resetting the limiter.

Checklist

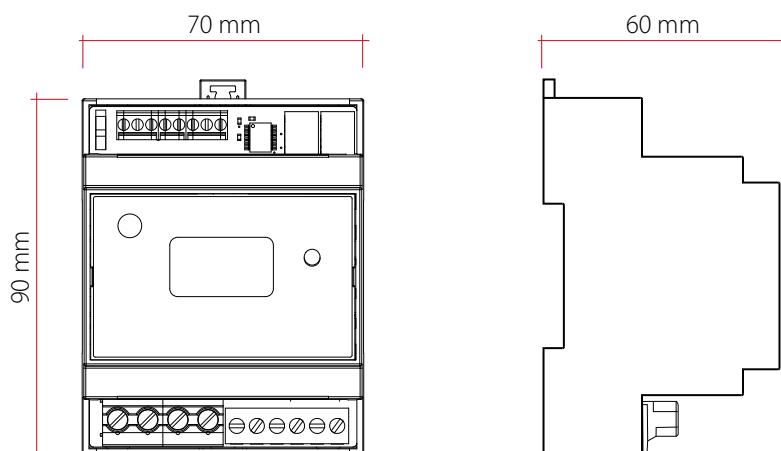
Temperature sensors

 ELTF-PTEx.2	Pt100 4-wire, line fluoropolymer, length = 3 m	0X70002
ELTF-PT.5	Pt100 4-wire, line fluoropolymer, length = 3 m	0650022

Technical Specifications

Operating voltage	100...240 VAC, 50/60 Hz
Max. power consumption	max. 8W (Wi-Fi switched on)
Switching capacity Relay K1 N/O contact (heating)	30 A (resistive load, max. 250 VAC), two-pole
Switching capacity Relay K2 N/C contact (alarm)	5 A (resistive load, max. 250 VAC), potential-free
Ambient temperature	-20 °C up to +50 °C (up to +55 °C with 25 A res. load K1)
Storage temperature	-20 °C up to +65 °C
Max. air humidity	80% r.h., non-condensing
Setpoint temperature range	-20 °C up to +500 °C
Measuring range	-20 °C up to +500 °C
Resolution	<100 °C 0,1 K, ≥100 °C 1 K
Switching accuracy	± 1 K
Connection terminals	Sensor & RS485: 0.05 - 1.31 mm ² rigid & flexible Trace heater: 0.2 - 6 mm ² rigid / 0.2 - 4mm ² flexible Other: 0.05 - 3.31 mm ² rigid & flexible
Sensor connection	Pt100 4-wire; fulfills requirement for operation with ELTF-PTEx sensors
Wi-Fi	2,4 GHz, IEEE 802.11b/g/n
Display	OLED display, 13 x 24 mm
Housing material	Plastic housing (ABS) with foil keyboard
Housing dimensions	70 (4DU)x 90 x 60 mm (WxHxD)
Protection	IP 20
Mounting	DIN rail
Weight	approx. 0.2 kg

Dimensions



Ordering Information

Type	Item no.
Smart Limiter	0634L00