Technical data

1. Functions

Plug-in power modul for transforming the supply voltage at terminals A1-A2 of TELE monitorling relays series GAMMA and TREND to internal operating voltage 24V~.

2. Mechanical design

Sealed self-extinguishing plastic housing. IP-rating IP40 (if mounted)

3. Electrical data and types

Transformer module with galvanically seperation between in- and output circuit

Supply voltage:	see table
Tolerance:	
Powermodule - Serie TR:	0.85 to 1.1 x U_N
Switching power supply - Serie SNT:	20V DC to 30V DC
Rated frequency:	50/60Hz
Duty cycle:	100%

Nominal voltage	Types	Rated consumption	Rated load	Design
12V AC	TR2 - 12V AC	2VA	0.5VA	A
	TR3 - 12V AC	4VA	1.5VA	B
24V AC	TR2 - 24V AC	2VA	0.5VA	A
	TR3 - 24V AC	4VA	1.5VA	B
24V DC	SNT2 - 24V DC			A
42V AC	TR2 - 42V AC	2VA	0.5VA	A
	TR3 - 42V AC	4VA	1.5VA	B
48V AC	TR2 - 48V AC	2VA	0.5VA	A
	TR3 - 48V AC	4VA	1.5VA	B
110V AC	TR2 - 110V AC	2VA	0.5VA	A
	TR3 - 110V AC	4VA	1.5VA	B
127V AC	TR2 - 127V AC	2VA	0.5VA	A
	TR3 - 127V AC	4VA	1.5VA	B
230V AC	TR2 - 230V AC	2VA	0.5VA	A
	TR3 - 230V AC	4VA	1.5VA	B
400V AC	TR2 - 400V AC	2VA	0.5VA	A
	TR3 - 400V AC	4VA	1.5VA	B
415V AC	TR3 - 415V AC	4VA	1.5VA	B
440V AC	TR3 - 440V AC	4VA	1.5VA	B
500V AC*	TR3 - 500V AC	4VA	1.5VA	B

* only in conjunction with the types G4PM!

4. Ambient conditions

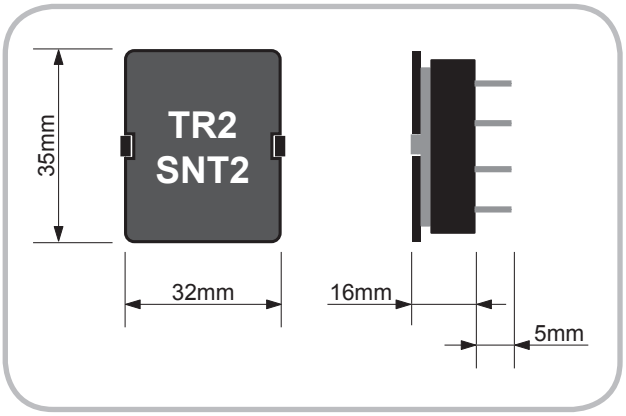
Ambient temperature:	-25 to +55°C
Storage temperature:	-25 to +70°C
Transport temperature:	-25 to +70°C
Relative humidity:	15% to 85%

5. Mounting

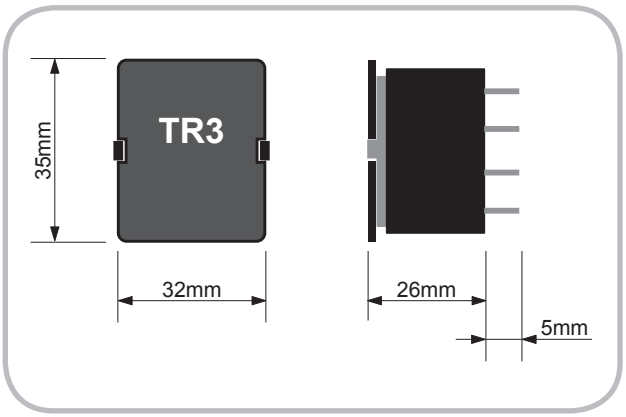
For mounting the module first the protective cup has to be removed. The module than can be concisely plugged into the mounting whole of the TELE monitoring relay series GAMMA or TREND.

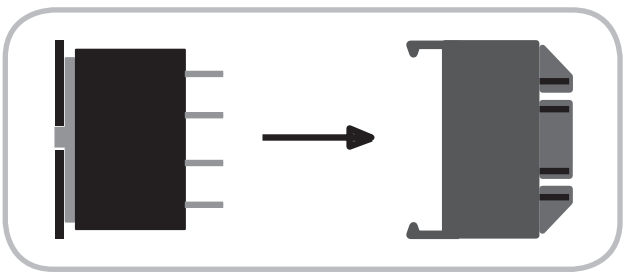
Dimensions

Design A - Type TR2 or SNT2



Design B - Type TR3





Sonden - Serie SK

Technical data

1. Functions
Probe for monitoring level of conductive liquids.

2. Mechanical design
Stainless steel probe, PVC covered, IP rating IP44

3. Electrical data
Measuring voltage: max. 24VAC

4. Ambient conditions
Ambient temperature:

SK1	0 to +60°C
SK2 and SK3	0 to +90°C
Storage temperature:	-25 to +90°C
Transport temperature:	-25 to +90°C
Relative humidity:	15% to 85%

5. Mounting
Type SK1:
The SK1 is designed for being duck completely under water. It is fixed at the cable end and fixed at the depending level.

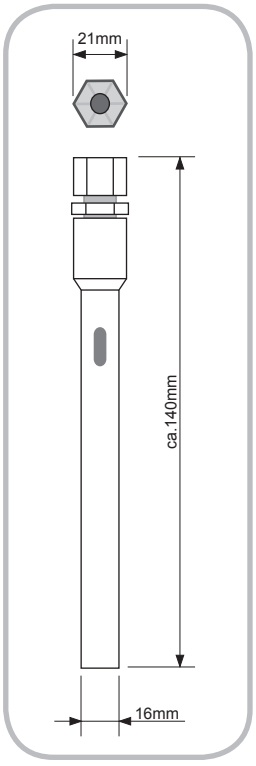
Type SK2 and SK3:
The SK2 and SK3 can be mounted on a mounting plate or directly into the top cover of the tank. The connection box has to be installed in a way that it is never covered by liquids.

6. Probe types

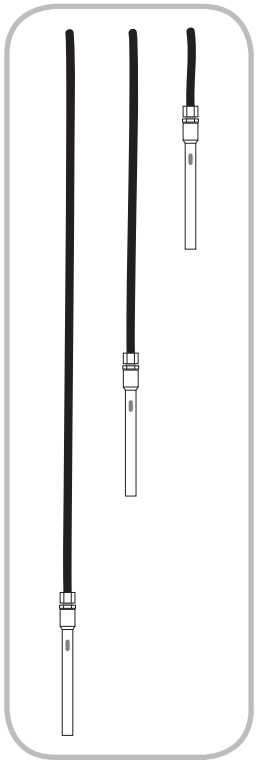
	2 probes (SK2)	3 probes (SK3)
Bar length 500mm	SK2 - 500	SK3 - 500
Bar length 1000mm	SK2 - 1000 a.A.	SK3 - 1000
Other bar lengths on request!		

Dimensions

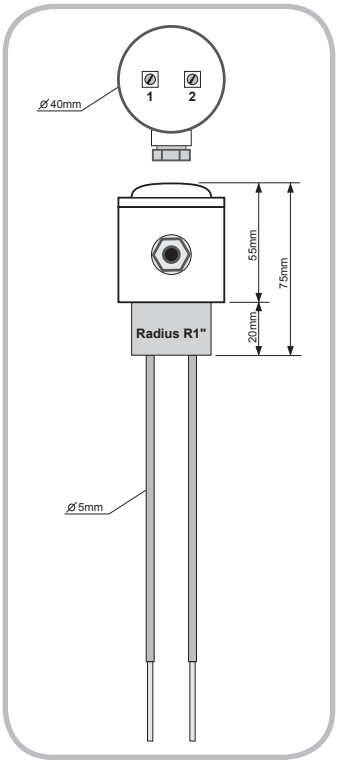
Design A - type SK1



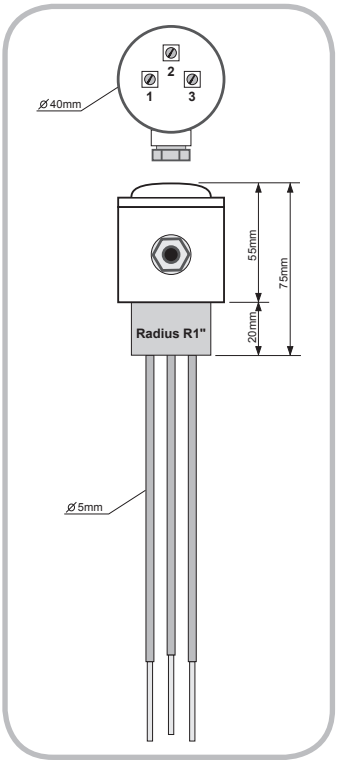
Mounting example SK1



Design B - type SK2



Design B - type SK3



Base load component GLE

Technical data

1. Functions
Base load element for TELE mains decoupler.
The base load element is connected in parallel to electronic loads to ensure that the mains decoupler can detect the switching on of the depending circuit. After the decoupler has reconnected the circuit to the supplying power network, the base load element warms up and changes from low-impendance to high-impedance (PTC-resistor).

2. Mechanical design
Silicone covered PTC-resistor with connection wires for built-in applications.

3. Electrical data and types
PTC-resistor

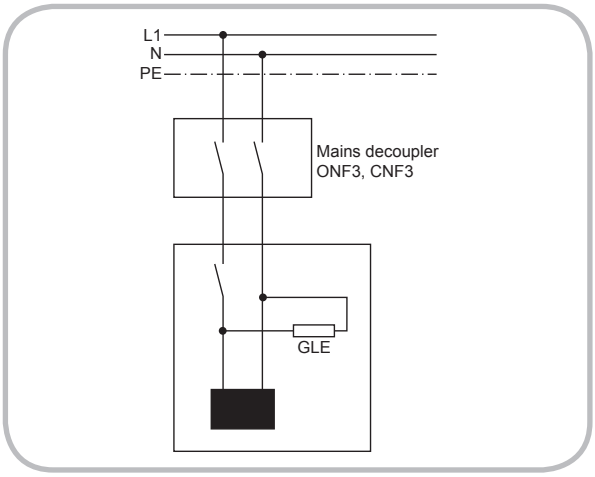
Resistance (20°C):	approx. 3.7kΩ
Resistance (nominal temperature):	approx. 12kΩ
Nominal temperature at 230VAC: (20°C ambient temperature):	approx. 70°C

4. Ambient conditions

Ambient temperature:	-25 to +55°C
Storage temperature:	-25 to +70°C
Transport temperature:	-25 to +70°C
Relative humidity:	15% to 85%

5. Mounting
The base load element has to be connected in parallel to the load .

Connections

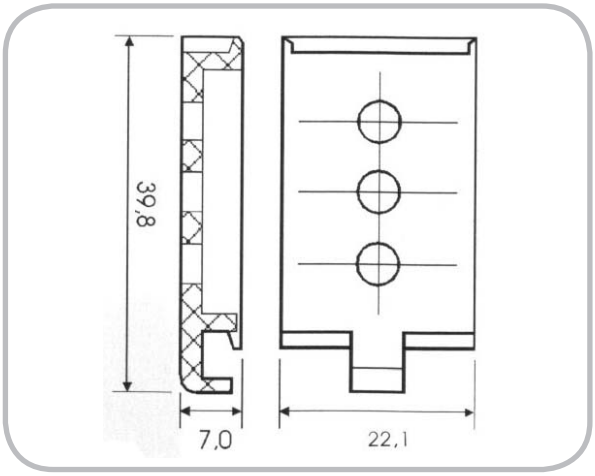


Mounting plate MP

Technical data

1. Functions
Mounting plate for fixing TELE devices on a mounting plate or wall.

2. Mechanical design
Self-extinguishing plastic, three drillholes diameter 4mm.



Front cover GAMMA

Technical data

1. Functions
Sealable front cover for GAMMA monitoring relays

2. Mechanical design
Plastic cover