ELEKTRA®

industrial
heating systems

PREMIUM
QUALITY
for everyone

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ELEKTRA
leading brand

Headquarters

40 years ELEKTRA®

For more than 40 years ELEKTRA has been specialising in the development and manufacturing of electric heating systems. This experience let us solidify our market position in the areas of industrial and commercial applications. The company was established in 1985 and has been the largest and most renown manufacturer of heating cable systems in Central Europe.

Quality guaranteed

Since the very start, ELEKTRA has taken on the product quality as the key mark of its business activities. According to company policy, well known and trusted cable industry suppliers provide ELEKTRA with highest quality raw materials confirmed by the profound and multi-stage in-company control. The team of engineers has been taking care of the thorough monitoring of the cable construction, design and installation standards, as well as the high level of technical documentation. Only in this way it has become possible to achieve full satisfaction of Clients and consequently the leading market position.

GIG
GŁÓWNY INSTYTUT GÓRNICTWA
JEDNOSTKA CERTYFIKUJĄCA
POWIADOMIENIE O ZAPEWNIENIU JAKOŚCI

GIG
GŁÓWNY INSTYTUT GÓRNICTWA
JEDNOSTKA CERTYFIKUJĄCA
POWIADOMIENIE O ZAPEWNIENIU JAKOŚCI

EAC

POLISH CENTRE FOR TESTING AND CERTIFICATION
CERTIFICATE
No. J - 153/13/2024
"ELEKTRA"
WŁODZIMIERZ NYC WITOLD NYC SPÓŁKA JAWNA
ul. Kazimierza Kamińskiego 4, 05-850 Ożarów Mazowiecki
PN-EN ISO 9001:2015-10
production, design, consulting
and distribution of heating systems
and distribution of electrical equipment
and power cables
IQNET
PCA
IAF

IQNET
Building trust together
Certificate
"ELEKTRA"
WŁODZIMIERZ NYC WITOLD NYC SPÓŁKA JAWNA
PN-EN ISO 9001:2015-10
Registration Number: PL - J - 153/13/2024
PCBC

Innovative solutions

Additionally, the cooperation of the entire ELEKTRA team has been focused on the development of new products, introducing innovative solutions and immediate response to market requirements. Such approach allows to continually enrich and widen the range of products, while Clients receive complete system solutions, as well as professional and fast assistance.

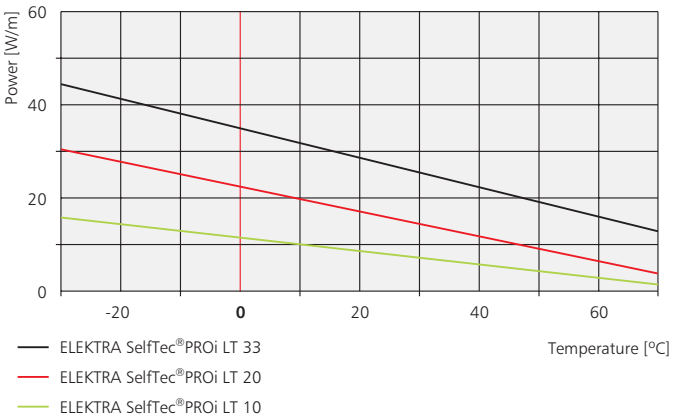
ELEKTRA Heating Cables

SelfTec®PROi LT

ELEKTRA SelfTec®PROi LT self-regulating heating cables have been designed for commercial and industrial applications, such as protection of pipes against frost and maintaining required process temperatures up to +65°C. These products are dedicated for both types of installations, in hazardous and non-hazardous areas. Optimal chemical properties and high UV resistance of HFFR outer sheath allow a wide range of applications.

ELEKTRA SelfTec®PROi LT

Function of the heating power vs. insulated steel pipe temperature



This package contains:

- **ELEKTRA SelfTec®PROi LT heating cable on a spool.**

ELEKTRA SelfTec®PROi LT

1. Tin-coated multi-wire copper conductor
2. Self-regulating conductive core
3. Modified polyolefin insulation
4. Tinned copper braiding
5. HFFR outer sheath

> Technical data:

Heating cable construction:

- tin-coated multi-wire copper conductor:
  1.11 mm² (10, 20 W/m)
  1.37 mm² (33 W/m)
- self-regulating conductive core
- modified polyolefin insulation
- tinned copper braiding
- HFFR outer sheath

Shape:	flat
Dimensions:	11.3 ±0.2 x 6.7 ±0.2 mm (10, 20 W/m) 13.4 ±0.2 x 6.7 ±0.2 mm (33 W/m)
Resistance range:	variable, temperature depending
Power output (nominal):	10, 20, 33 W/m (+10°C)
Max. working temperature:	+65°C
Max. exposure temperature:	+85°C (power supply off)
Min. installation temperature:	-40°C
Min. cable bending radius:	25 mm
Power supply:	230 V AC
Insulation test voltage:	2500 V
Standards:	EN 62395-1, EN 60079-30-1, EN 60079-0
Approvals:	ATEX KDB 18ATEX0014U Ⓔx II 2G Ex 60079-30-1 IIC T6 Gb Ⓔx II 2D Ex 60079-30-1 IIIC 85°C Db IECEx KDB 18.0001U Ex 60079-30-1 IIC T6 Gb Ex 60079-30-1 IIIC 85°C Db
Product marking:	Ex, CE, EAC
Temperature class:	T6

START-UP TEMPERATURE	SelfTec®PROi LT 10 W/m			SelfTec®PROi LT 20 W/m				SelfTec®PROi LT 33 W/m			
	CIRCUIT-BREAKER, C-TYPE										
	10A	16A	20A	10A	16A	20A	32A	16A	20A	32A	40A
	MAX. CABLE LENGTH PER CIRCUIT [m]										
-20°C	85	125	180	45	65	90	120	50	65	85	100
0°C	115	170	205	60	90	120	135	60	75	95	110
+10°C	130	205	205	80	110	135	135	70	80	110	120

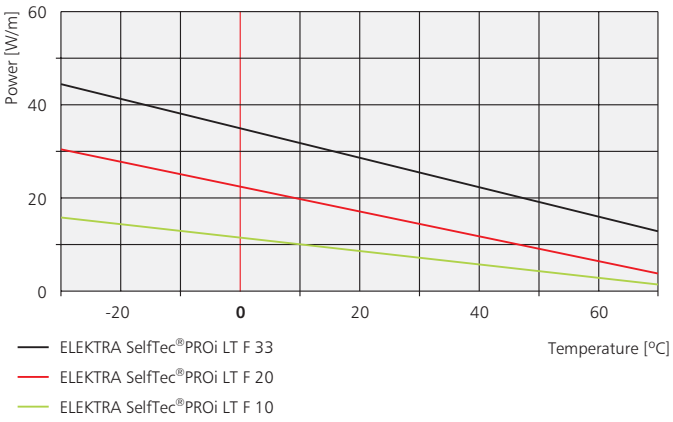
ELEKTRA Heating Cables

SelfTec®PROi LT F

ELEKTRA SelfTec®PROi LT F self-regulating heating cables have been designed for commercial and industrial applications, such as protection of pipes against frost and maintaining required process temperatures up to +65°C. These products are dedicated for both types of installations, in hazardous and non-hazardous areas. High chemical properties of fluoro-polymer outer sheath allow a wide range of applications.

ELEKTRA SelfTec®PROi LT F

Function of the heating power vs. insulated steel pipe temperature



This package contains:

- **ELEKTRA SelfTec®PROi LT F heating cable on a spool.**

ELEKTRA SelfTec®PROi LT F

1. Tin-coated multi-wire copper conductor
2. Self-regulating conductive core
3. Modified polyolefin insulation
4. Tinned copper braiding
5. Fluoropolymer outer sheath

> Technical data:

Heating cable construction:

- tin-coated multi-wire copper conductor:
  1.11 mm² (10, 20 W/m)
  1.37 mm² (33 W/m)
- self-regulating conductive core
- modified polyolefin insulation
- tinned copper braiding
- fluoropolymer outer sheath

Shape:	flat
Dimensions:	10.7 ±0.2 x 6.1 ±0.2 mm (10, 20 W/m) 12.8 ±0.2 x 6.1 ±0.2 mm (33 W/m)
Resistance range:	variable, temperature depending
Power output (nominal):	10, 20, 33 W/m (+10°C)
Max. working temperature:	+65°C
Max. exposure temperature:	+85°C (power supply off)
Min. installation temperature:	-40°C
Min. cable bending radius:	25 mm
Power supply:	230 V AC
Insulation test voltage:	2500 V
Standards:	EN 62395-1, EN 60079-30-1, EN 60079-0
Approvals:	ATEX KDB 18ATEX0014U Ⓔx II 2G Ex 60079-30-1 IIC T6 Gb Ⓔx II 2D Ex 60079-30-1 IIIC 85°C Db IECEx KDB 18.0001U Ex 60079-30-1 IIC T6 Gb Ex 60079-30-1 IIIC 85°C Db
Product marking:	Ex, CE, EAC
Temperature class:	T6

START-UP TEMPERATURE	SelfTec®PROi LT F 10 W/m			SelfTec®PROi LT F 20 W/m				SelfTec®PROi LT F 33 W/m			
	CIRCUIT-BREAKER, C-TYPE										
	10A	16A	20A	10A	16A	20A	32A	16A	20A	32A	40A
	MAX. CABLE LENGTH PER CIRCUIT [m]										
-20°C	85	125	180	45	65	90	120	50	65	85	100
0°C	115	170	205	60	90	120	135	60	75	95	110
+10°C	130	205	205	80	110	135	135	70	80	110	120

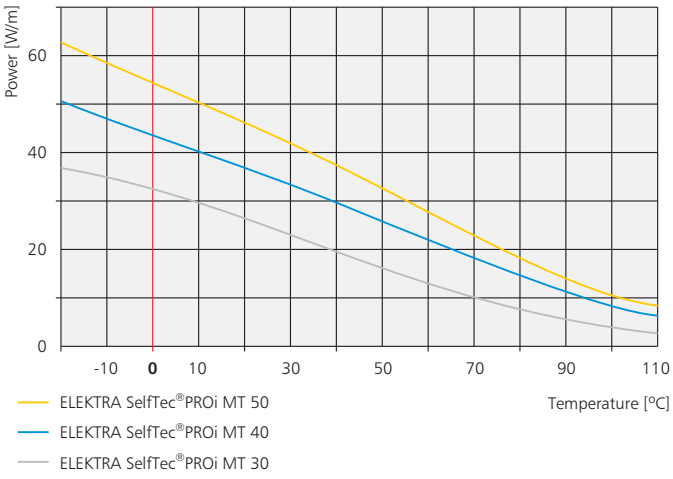
ELEKTRA Heating Cables

SelfTec®PROi MT

ELEKTRA SelfTec®PROi MT self-regulating heating cables have been designed for commercial and industrial applications, such as protection of pipes against frost and maintaining required process temperatures up to +110°C. These products are dedicated for both types of installations, in hazardous and non-hazardous areas. HFFR outer sheath provides high UV resistance and optimal chemical and temperature properties.

ELEKTRA SelfTec®PROi MT

Function of the heating power vs. insulated steel pipe temperature



This package contains:

- **ELEKTRA SelfTec®PROi MT heating cable on a spool.**

ELEKTRA SelfTec®PROi MT

1. Nickel-coated multi-wire copper conductor
2. Self-regulating conductive core
3. XLEVA insulation
4. Tinned copper braiding
5. HFFR outer sheath

> Technical data:

Heating cable construction:

- nickel-coated multi-wire copper conductor:
  1.11 mm² (30, 40 W/m)
  1.21 mm² (50 W/m)
- self-regulating conductive core
- XLEVA insulation
- tinned copper braiding
- HFFR outer sheath

Shape:	flat
Dimensions:	13.9 ±0.2 x 6.3 ±0.2 mm (30, 40 W/m) 15.1 ±0.2 x 6.3 ±0.2 mm (50 W/m)
Resistance range:	variable, temperature depending
Power output (nominal):	30, 40, 50 W/m (+10°C)
Max. working temperature:	+110°C
Max. exposure temperature:	+135°C (power supply off)
Min. installation temperature:	-50°C
Min. cable bending radius:	25 mm
Power supply:	230 V AC
Insulation test voltage:	2500 V
Standards:	EN 62395-1, EN 60079-30-1, EN 60079-0
Approvals:	ATEX KDB 18ATEX0014U Ⓔx II 2G Ex 60079-30-1 IIC T4 Gb Ⓔx II 2D Ex 60079-30-1 IIIC 135°C Db IECEx KDB 18.0001U Ex 60079-30-1 IIC T4 Gb Ex 60079-30-1 IIIC 135°C Db
Product marking:	Ex, CE, EAC
Temperature class:	T4

START-UP TEMPERATURE	SelfTec®PROi MT 30 W/m					SelfTec®PROi MT 40 W/m					SelfTec®PROi MT 50 W/m				
	CIRCUIT-BREAKER, C-TYPE														
	16A	20A	32A	40A	50A	16A	20A	32A	40A	50A	16A	20A	32A	40A	50A
	MAX. CABLE LENGTH PER CIRCUIT [m]														
-20°C	130	130	130	130	130	71	94	118	118	118	40	54	81	108	114
0°C	135	135	135	135	135	78	104	122	122	122	44	58	88	114	116
+10°C	138	138	138	138	138	83	110	126	126	126	46	61	92	117	117

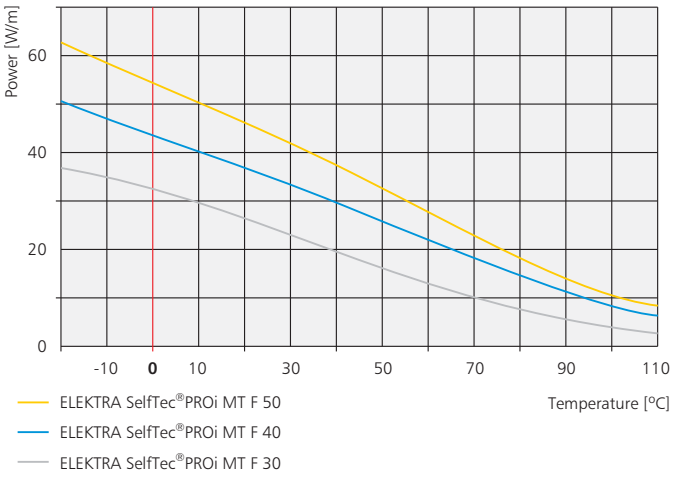
ELEKTRA Heating Cables

SelfTec®PROi MT F

ELEKTRA SelfTec®PROi MT F self-regulating heating cables have been designed for commercial and industrial applications, such as protection of pipes against frost and maintaining required process temperatures up to +110°C. These products are dedicated for both types of installations, in hazardous and non-hazardous areas. High chemical properties of fluoro-polymer outer sheath allow a wide range of applications.

ELEKTRA SelfTec®PROi MT F

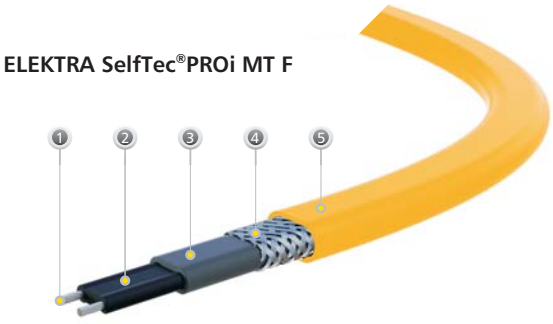
Function of the heating power vs. insulated steel pipe temperature



This package contains:

- **ELEKTRA SelfTec®PROi MT F heating cable on a spool.**

ELEKTRA SelfTec®PROi MT F

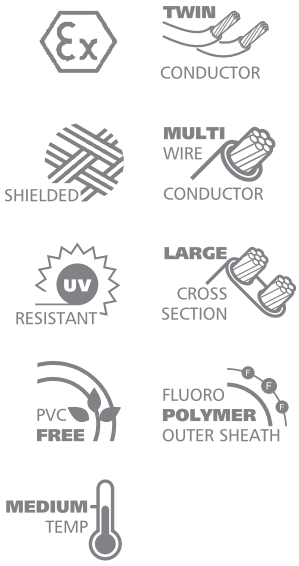


1. Nickel-coated multi-wire copper conductor
2. Self-regulating conductive core
3. XLEVA insulation
4. Tinned copper braiding
5. Fluoropolymer outer sheath

> Technical data:

Heating cable construction:

- nickel-coated multi-wire copper conductor:
  1.11 mm² (30, 40 W/m)
  1.21 mm² (50 W/m)
- self-regulating conductive core
- XLEVA insulation
- tinned copper braiding
- fluoropolymer outer sheath



Shape:	flat
Dimensions:	13.3 ±0.2 x 5.7 ±0.2 mm (30, 40 W/m) 14.5 ±0.2 x 5.7 ±0.2 mm (50 W/m)
Resistance range:	variable, temperature depending
Power output (nominal):	30, 40, 50 W/m (+10°C)
Max. working temperature:	+110°C
Max. exposure temperature:	+135°C (power supply off)
Min. installation temperature:	-50°C
Min. cable bending radius:	25 mm
Power supply:	230 V AC
Insulation test voltage:	2500 V
Standards:	EN 62395-1, EN 60079-30-1, EN 60079-0
Approvals:	ATEX KDB 18ATEX0014U Ⓔx II 2G Ex 60079-30-1 IIC T4 Gb Ⓔx II 2D Ex 60079-30-1 IIIC 135°C Db IECEx KDB 18.0001U Ex 60079-30-1 IIC T4 Gb Ex 60079-30-1 IIIC 135°C Db
Product marking:	Ex, CE, EAC
Temperature class:	T4

START-UP TEMPERATURE	SelfTec®PROi MT F 30 W/m					SelfTec®PROi MT F 40 W/m					SelfTec®PROi MT F 50 W/m				
	CIRCUIT-BREAKER, C-TYPE														
	16A	20A	32A	40A	50A	16A	20A	32A	40A	50A	16A	20A	32A	40A	50A
	MAX. CABLE LENGTH PER CIRCUIT [m]														
-20°C	130	130	130	130	130	71	94	118	118	118	40	54	81	108	114
0°C	135	135	135	135	135	78	104	122	122	122	44	58	88	114	116
+10°C	138	138	138	138	138	83	110	126	126	126	46	61	92	117	117

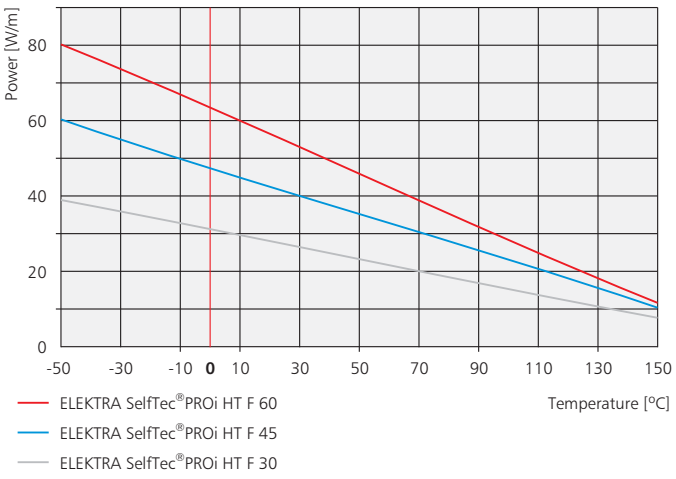
ELEKTRA Heating Cables

SelfTec®PROi HT F

ELEKTRA SelfTec®PROi HT F self-regulating heating cables have been designed for industrial applications, such as protection of pipes against frost and maintaining required process temperatures up to +150°C. These products are dedicated for both types of installations, in hazardous and non-hazardous areas. Fluoropolymer outer sheath provides a high chemical and temperature resistance.

ELEKTRA SelfTec®PROi HT F

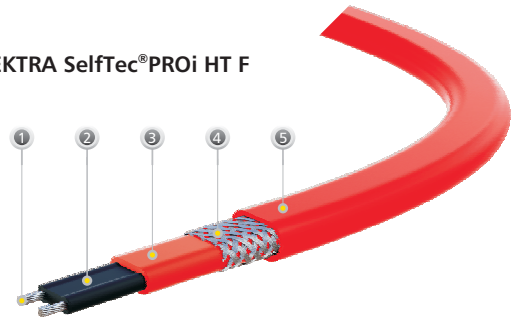
Function of the heating power vs. insulated steel pipe temperature



This package contains:

- **ELEKTRA SelfTec®PROi HT F heating cable on a spool.**

ELEKTRA SelfTec®PROi HT F



1. Nickel coated multi-wire copper conductor
2. Self-regulating conductive core
3. Fluoropolymer insulation
4. Nickel coated copper braiding
5. Fluoropolymer outer sheath

> Technical data:

Heating cable construction:

- nickel-coated multi-wire copper conductor
  1.11 mm² (30, 45 W/m)
  1.21 mm² (60 W/m)
- self-regulating conductive core
- fluoropolymer insulation
- tinned copper braiding
- fluoropolymer outer sheath

Shape:	flat
Dimensions:	10.5 ±0.2 x 5.0 ±0.2 mm
Resistance range:	variable, temperature depending
Power output (nominal):	30, 45, 60 W/m (+10°C)
Max. working temperature:	+150°C
Max. exposure temperature:	+190°C (power supply off)
Min. installation temperature:	-50°C
Min. cable bending radius:	20 mm
Power supply:	230 V AC
Insulation test voltage:	2500 V
Standards:	EN 62395-1, EN 60079-30-1, EN 60079-0
Approvals:	ATEX KDB 18ATEX0014U Ⓔx II 2G Ex 60079-30-1 IIC T3 Gb Ⓔx II 2D Ex 60079-30-1 IIIC 200°C Db IECEx KDB 18.0001U Ex 60079-30-1 IIC T3 Gb Ex 60079-30-1 IIIC 200°C Db
Product marking:	Ex, CE, EAC
Temperature class:	T3

START-UP TEMPERATURE	SelfTec®PROi HT F 30 W/m					SelfTec®PROi HT F 45 W/m					SelfTec®PROi HT F 60 W/m				
	CIRCUIT-BREAKER, C-TYPE														
	16A	20A	32A	40A	50A	16A	20A	32A	40A	50A	16A	20A	32A	40A	50A
	MAX. CABLE LENGTH PER CIRCUIT [m]														
-20°C	44	70	88	112	112	31	50	63	94	94	25	39	49	79	84
0°C	46	74	92	114	114	33	53	66	97	97	26	42	52	83	86
+10°C	48	77	97	117	117	35	56	69	99	99	27	43	54	87	88

ELEKTRA Connection Kits

CACM25-PROi

ELEKTRA CACM25-PROi connection kit is dedicated to connecting ELEKTRA SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F and SelfTec®PROi HT F heating cables to junction boxes, without compromising the continuity of electrical insulation of the heating cable wires or the heating cables' cores.

The kit is certified for applications in hazardous areas. The components can be mounted without the necessity of applying heat guns or torches, due to this feature no permission for operation with heat sources in hazardous areas is required.

Cable glands are made of polyamide, which ensures high thermal durability and mechanical resistance. Silicone rubber gasket included in the kit helps to execute the optimal sealing of the gland with the heating cable, regardless of the current external conditions.

Application:
Cold-apllied connection kit dedicated to SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F and SelfTec®PROi HT F heating cables.

The kit contains:

- **gland,**
- **gasket,**
- **locknut,**
- **insulating jacket for core sealing,**
- **insulating jacket yellow/green,**
- **auxiliary tubes,**
- **installation manual.**

> Technical data:

Area classification:	Hazardouds areas: zones 1 and 2 (for gases and vapours) and zones 21 and 22 (for electrically conductive dust) Non-hazadous areas
Approvals:	ATEX KBD 19ATEX0003U Ⓔx II 2G Ex eb IIC Gb Ⓔx II 2D Ex tb IIIC Db IECEx KDB 19.0001U Ex eb IIC Gb Ex tb IIIC Db
Type:	Cold applied installation
Thread type:	M25 x 1.5
Min. ambient temperature:	-40°C
Max. exposure temperature (gland):	+110°C

CAE-PROi

ELEKTRA
End Seal Kits

This ELEKTRA CAE-PROi end seal kit is dedicated to terminate ELEKTRA SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F and SelfTec®PROi HT F heating cables.

The kit is certified for applications in hazardous areas. The unique design of the CAE-PROi suits the demanding requirements of the industrial environment. It can be used in applications with temperature range from -50°C to +240°C. It provides both excellent electrical insulation and ultimate mechanical protection, as it is an ideal combination between molded silicone rubber end seal and stainless steel cover.

The components of the kit can be mounted without the necessity of applying heat guns or torches, due to this feature no permission for operation with heat sources in hazardous areas is required.

Application:
Cold-applied end seal kit dedicated to SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F and SelfTec®PROi HT F heating cables.

The kit contains:
- stainless steel cover top,
- stainless steel cover bottom,
- end seal,
- silicone rubber,
- plain washers,
- spring washers,
- screws,
- installation manual.

> Technical data:

Area classification:	Hazardouds areas: zones 1 and 2 (for gases and vapours) and zones 21 and 22 (for electrically conductive dust) Non-hazadous areas
Approvals:	ATEX KBD 19ATEX0003U Ⓔx II 2G Ex 60079-30-1 IIC Gb Ⓔx II 2D Ex 60079-30-1 IIIC Db IECEx KDB 19.0001U Ex 60079-30-1 IIC Gb Ex 60079-30-1 IIIC Db
Type:	cold applied installation
Material:	stainless steel, silicone rubber
Protection:	IP 66
Min. ambient temperature:	-50°C
Max. exposure temperature:	+240°C

ELEKTRA Connection Kits

HAC-PROi

ELEKTRA HAC-PROi connection kit is dedicated to connecting power supply to ELEKTRA SelfTec®PROi LT/LT F and SelfTec®PROi MT/MT F without compromising the continuity of electrical insulation of the heating cable wires or the heating cables' cores.

The kit is certified for applications in hazardous areas.

Connection between the heating cable wires and the screen is executed with pre-insulated butt terminals. To seal the connection and protect against moisture penetration, heatshrink tubes with glue are applied and mastic.

Application:
Connection kit for SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F heating cables.

The kit contains:

- **heat-shrink tubes with glue,**
- **pre-insulated butt terminals,**
- **mastic,**
- **installation manual.**

> Technical data:

Approvals:	ATEX KBD 19ATEX0003U Ⓔx II 2G Ex 60079-30-1 IIC Gb Ⓔx II 2D Ex 60079-30-1 IIIC Db IECEx KDB 19.0001U Ex 60079-30-1 IIC Gb Ex 60079-30-1 IIIC Db
Min. ambient temperature:	-55°C
Max. exposure temperature:	+110°C
Dielectric strength:	18 kV/mm
Resistivity:	10^{14} Ω·cm
Dimensions:	length approx. 150 mm
Power supply cables:	3 x 1.0 mm², 3 x 1.5 mm² or 3 x 2.5 mm²

HAE-PROi

ELEKTRA
End Seal Kits

ELEKTRA HAE-PROi end seal kit is dedicated to the purposes of terminating ELEKTRA SelfTec®PROi LT/LT F and SelfTec®PROi MT/MT F heating cables without compromising the continuity of electrical insulation of the heating cable wires or the heating cables' cores.

The kit is certified for applications in hazardous areas. The kit contains heat-shrink tubes with glue, which efficiently seals the cables against moisture penetration, after installation.

Application:
End seal kit for ELEKTRA SelfTec®PROi LT/LT F and SelfTec®PROi MT/MT F heating cables.

The kit contains:
- **heat-shrink tubes with glue,**
- **installation manual.**

> Technical data:

Approvals:	ATEX KBD 19ATEX0003U Ⓔx II 2G Ex 60079-30-1 IIC Gb Ⓔx II 2D Ex 60079-30-1 IIIC Db IECEx KDB 19.0001U Ex 60079-30-1 IIC Gb Ex 60079-30-1 IIIC Db
Min. ambient temperature:	-55°C
Max. exposure temperature:	+110°C
Dielectric strength:	18 kV/mm
Resistivity:	10^{14} Ω·cm
Dimensions:	length approx. 130 mm

ELEKTRA
Junction Boxes

MBP 161690

ELEKTRA MBP 161690 junction box is dedicated to power supply, cable extension and branching of ELEKTRA SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F and SelfTec®PROi HT F heating cables. The box enables power supply of max. 3 heating circuits or branching of a single heating circuit in max. 3 directions.

The box's enclosure is designed for operation in hazardous areas and fulfills all requirements valid for zones 1 and 2, as well as 21 and 22.

Glass reinforced polyester enclosure is durable and UV-resistant, therefore allows applications in uncovered outdoor systems, is highly mechanically resistant and allows operation in chemically aggressive environment. Spring-cage terminals facilitate installation of single-wire cables, as well as the crimp-terminated cables, with no necessity of application of tools, and later safe and reliable operation. The box has got four sealed M25 entries and can host one, two or three heating circuits. Due to the dimensions and number of entries, the box enables easy branching of heating systems. To lead in the heating cables, additional connection sets CACM25-PROi with the M25 gland are recommended. The box can be mounted on pipelines using ELEKTRA BM16-PROi support brackets, on mounting components of cable trays or on-surface.

This package contains:

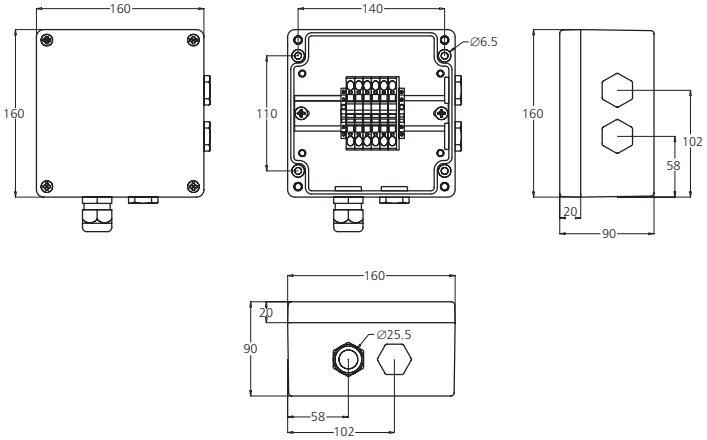
- **ELEKTRA MBP 161690 junction box,**
- **Ex power supply cable gland,**
- **Ex plugs for heating cable entries,**
- **instruction manual.**

Technical data:

Operating temperature:	max. +85°C min. -55°C
Protection:	IP 66
Entries:	4 x M25
Cable cross-section:	1-6 mm²
Max. operation voltage:	690 V
Max. current rating:	50 A
Construction materials:	
enclosure:	glass reinforced polyester, halogen-free
cover:	glass reinforced polyester, halogen-free
cover seal:	silicone rubber
cover screws:	stainless steel V2
Approvals:	IBExU 12 ATEX 1181 Ⓔx II 2G Ex e IIC T* Gb Ⓔx II 2D Ex tb IIIC T* Db IECEx IBE 14.0019 Ex e IIC T* Gb Ex tb IIIC T* Db * For T-rating, see heating cable
Product marking:	CE, Ex

Dimiensions:

width:	160 mm
length:	160 mm
depth:	90 mm



Accessories:

Connection set for cold applied installation:	CACM25-PROi
Insulation entry kit:	EK-PRO
Reducer Ex e M25/M16 with cable gland Ex e M16 x 1.5 mm²:	RM25/16
Support bracket:	BM16-PROi

ELEKTRA
Junction Boxes

MBP 121290

ELEKTRA MBP 121290 junction box is dedicated to power supply and cable extension of ELEKTRA SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F and SelfTec®PROi HT F heating cables. The box enables power supply of one heating circuit or extension of a single heating circuit.

The box's enclosure is designed for operation in hazardous areas and fulfils all requirements valid for zones 1 and 2, as well as 21 and 22.

Glass reinforced polyester enclosure is durable and UV-resistant, therefore allows applications in uncovered outdoor systems, is highly mechanically resistant and allows operation in chemically aggressive environment. Spring-cage terminals facilitate installation of single-wire cables, as well as the crimp-terminated cables, with no necessity of application of tools, and later safe and reliable operation. The box has got two sealed M25 entries and can host one heating circuits. To lead in the heating cables, additional connection kits CACM25-PROi with the M25 gland are recommended. The box can be mounted on pipelines using ELEKTRA BM12-PROi support brackets, on mounting components of cable trays or on-surface.

This package contains:

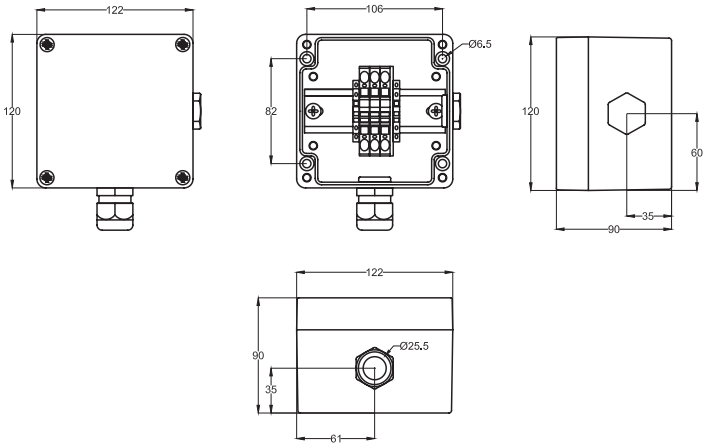
- **ELEKTRA MBP 121290 junction box,**
- **Ex power supply cable gland,**
- **Ex plugs for heating cable entries,**
- **instruction manual.**

Technical data:

Operating temperature:	max. +85°C min. -55°C
Protection:	IP 66
Entries:	2 x M25
Cable cross-section:	1-6 mm²
Max. operation voltage:	690 V
Max. current rating:	50 A
Construction materials:	
enclosure:	glass reinforced polyester, halogen-free
cover:	glass reinforced polyester, halogen-free
cover seal:	silicone rubber
cover screws:	stainless steel V2
Approvals:	IBExU 12 ATEX 1181 Ⓔx II 2G Ex e IIC T* Gb Ⓔx II 2D Ex tb IIIC T* Db IECEx IBE 14.0019 Ex e IIC T* Gb Ex tb IIIC T* Db * For T-rating, see heating cable
Product marking:	CE, Ex

Dimensions:

width:	122 mm
length:	120 mm
depth:	90 mm



Accessories:

Connection set for cold applied installation:	CACM25-PROi
Insulation entry kit:	EK-PRO
Reducer Ex e M25/M16 with cable gland Ex e M16 x 1.5 mm²:	RM25/16
Support bracket:	BM12-PROi

ELEKTRA
Junction Boxes

EBP 1313-PROi

ELEKTRA EBP 1313-PROi junction box is dedicated to use in industrial installations in non-hazardous areas. It can be used for power supply, cable extension and branching of ELEKTRA SelfTec®PROi LT/LT F, SelfTec®PROi MT/MT F and SelfTec®PROi HT F heating cables. The box enables power supply of max. 3 heating circuits or branching of a single heating circuit in max. 3 directions.

Glass-fibre reinforced polycarbonate enclosure allows applications in uncovered outdoor systems, is highly mechanically resistant and allows operation in chemically aggressive environment. To lead in the heating cables, additional connection sets CACM25-PROi with the M25 gland should be used.

The box can be mounted on pipelines using ELEKTRA BM 13-PROi support brackets, on mounting components of cable trays or on-surface.

This package contains:

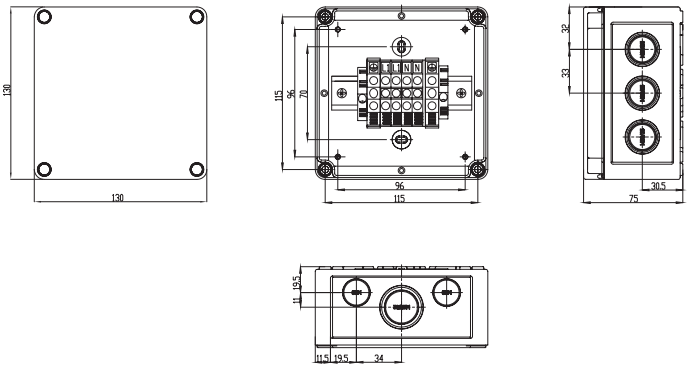
- **ELEKTRA EBP 1313-PROi junction box,**
- **set of screws with plugs,**
- **power supply cable gland.**

Technical data:

Operating temperature:	max. +80°C min. -35°C
Protection:	IP 66
Entries:	2 x M20, 9 x M20/M25, 1 x M25/32
Cable cross-section:	0.2-10 mm²
Max. operation voltage:	690 V
Max. current rating:	55 A
Construction materials:	
enclosure:	polycarbonate
cover:	polycarbonate, glass-fibre reinforced
cover seal:	polyurethane
cover screws:	polyamide, glass-fibre reinforced
Product marking:	CE, c UL us, DNVGL, DLG

Dimensions:

width:	130 mm
length:	130 mm
depth:	75 mm



Accessories:

Connection kit for cold applied installation:	CACM25-PROi
Support bracket:	BM 13-PROi

ELEKTRA
Junction Boxes

EBP 0606-PROi

ELEKTRA EBP 0606-PROi junction box is dedicated to use in industrial installations in non-hazardous areas. It can be used to connect and extend power supply cables of RTD 902150/10, PT100 ESN206081, ETF-622 temperature sensors. Additionally, the box can be used as a housing of sensor for air temperature measurements.

Glass-fibre reinforced polycarbonate enclosure allows applications in uncovered outdoor systems, is highly mechanically resistant and allows operation in chemically aggressive environment. To lead in the connection cables M16 gland should be used.

The box can be mounted on pipelines using ELEKTRA BM 08-PROi support brackets, on mounting components of cable trays or on-surface.

This package contains:

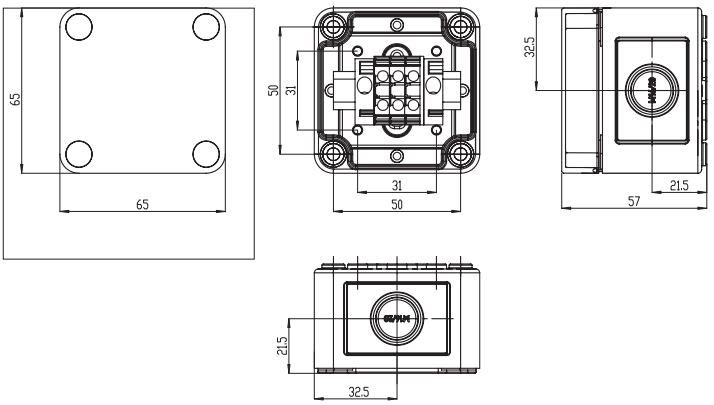
- **ELEKTRA EBP 0606-PROi junction box,**
- **set of screws with plugs,**
- **2 power supply cable glands.**

Technical data:

Operating temperature:	max. +80°C min. -35°C
Protection:	IP 66
Entries:	4 x M16/M20
Cable cross-section:	0.2-4 mm²
Max. operation voltage:	500 V
Max. current rating:	32 A
Construction materials:	
enclosure:	polycarbonate
cover:	polycarbonate, glass-fibre reinforced
cover seal:	polyurethane
cover screws:	polyamide, glass-fibre reinforced
Product marking:	CE, c UL us, DNVGL, DLG

Dimensions:

width:	65 mm
length:	65 mm
depth:	57 mm



Accessories:

Support bracket:	BM 08-PROi

ELEKTRA
Temperature Controllers

exTHERM-AT

exTHERM-AT electromechanical spark-proof controller designed for monitoring and temperature control of heating systems in hazardous areas. Approved for applications in zones 1 and 2 in gas and vapour atmosphere, also in zones 21 and 22 in the presence of electrically conductive dust. Temperature control range: 0°C to +190°C or -20°C to +50°C.

Max. connection current: 25A. The controller's principle of operation is based on the phenomenon of the thermal expansion of liquid or gas.

The electrical switching element is a pressure-resistant encapsulated thermostat with a snap-action switch. Standard temperature compensation ensures stability of connection at variable ambient temperatures.

Application:

Hazardous area: zones 1 and 2 (for gases and vapours) and zones 21 and 22 (for electrically conductive dust). Non-hazardous areas.

This package contains:

- **ELEKTRA exTHERM-AT controller,**
- **Ex power supply cable gland,**
- **instruction manual.**

> Technical data:

Enclosure:

material:	polyester case, glass-fibre reinforced, black
protection:	IP 65
operating temperature:	-40°C ÷ +70°C (referring to T4, at 25A max. +50°C)
cable outlet:	Ex M20 x 1.5 cable gland, sealing range 6…13 mm Ex M25 x 1.5 cable gland, sealing range 7…17 mm

Temperature sensor:

type:	liquid sensor with a capillary
dimensions:	capillary 3 m, sensor Ø 4 x 87 mm
material:	stainless steel (CrNi) 1.4571
operating temperature:	-40°C ÷ +215°C
min. bending radius:	do not bend the sensor, for the capillary: ≥ 5 mm

Switching:

type:	single-pole double-throw changeover contact (SPDT)
rated current:	25A at 250 V AC

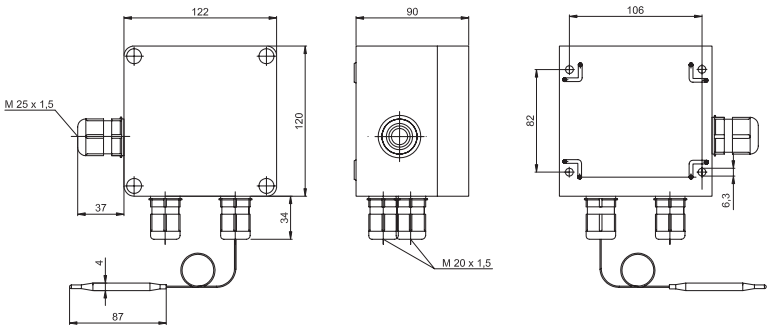
Settings:

temperature setting:	0°C ÷ +190°C or -20°C ÷ +50°C (depends on controller variant)
hysteresis:	approx. 7%
setting modification:	with a screwdriver (after removing the case cover)

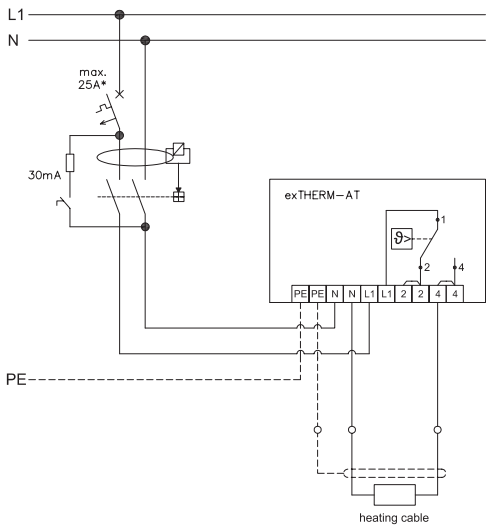
Approvals:	EPS 11 ATEX 1354 Ⓔx II 2G Ex db eb IIC T4/T5/T6 Gb Ⓔx II 2D Ex tb IIIC T85°C/T100°C/T130°C Db IECEx EPS 13.0046 Ex db eb IIC T4/T5/T6 Gb Ex tb IIIC T85°C/T100°C/T130°C Db EPS 11 ATEX 1354 (SIL 2) TC RU C-DE.ME92.B.00443
Product marking:	CE, Ex

> Dimensions:

width:	122 mm
length:	120 mm
depth:	90 mm



> Wiring diagram:



* The safety amperage value and characteristics of the circuit breaker depends on the power and type of the heating cable.

> Accessories:

Support bracket:	BM 13-PROi

exTHERM-DR

ELEKTRA
Temperature Controllers

This package contains:
- **ELEKTRA exTHERM-DR controller,**
- **instruction manual.**

The ELEKTRA exTHERM-DR electronic temperature controller is dedicated to the control of heating systems in hazardous areas, it's especially recommended for frost protection applications and maintenance of the required pipeline temperature. The intrinsically safe Ex[ia] measurement input allows the direct connection of the temperature sensor.

The controller has a control relay output K1 and an alarm relay output K2. The K2 relay output signals when limit values have been exceeded or not achieved. Alternatively, a binary signal of 0/10 V is also available for the controller analog output or the limit value signalling. The current measured value or the setpoint value are available via the standard analog output.

The backlit LCD display shows information about measured value, setpoint value, etc., in an easy-to-read manner. A clearly-structured operation setup enables quick configuration and thereby reduces the startup times. Alternatively, the configuration and parameterization can also take place via a setup program or the standard USB interface.

Application:
Hazardous areas requiring tight temperature control with line sensing control.

> Technical data:

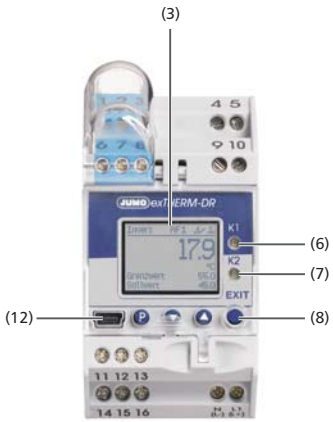
Temperature measurement range:	-200°C ÷ +850°C
Operating temperature:	0°C ÷ +55°C
Storage temperature:	-30°C ÷ +70°C
Climate conditions:	85% rel. humidity without condensation
Power supply voltage:	230 V AC +10%/-15%, 48-63 Hz
Power consumption:	12 VA
Relay outputs:	
control relay K1:	single pole double throw relay, rated current 3A
alarm relay K2:	single pole double throw relay, rated current 3A
contact durability K1, K2:	min. 30K operations at the resistive load 3A/250 V AC
analog output:	4 to 20 mA, 0 to 20 mA
logic output:	binary signal 0/10 V
Enclosure:	
material:	polycarbonate
protection:	IP 20
installation:	DIN bus
operating position:	vertical
electrical connection	on the front via screw terminals for cables of max. cross-section 2.5 mm^2
Temperature sensor:	
type:	PT100 sensor, 2- or 3-wire connection circuit (separately available)
hysteresis:	0.5% / 0.1% (2/3-wire connection)
sampling rate:	210 ms
connection type:	maximum lead wire resistance in 2-wire circuit: 15 Ω; 3-wire circuit: 30 Ω
diagnosed alarms:	
overrange and underrange:	detected and visible in the display
sensor/cable break:	detected and visible in the display, relay output controller K1 is inactive
sensor short circuit:	detected and visible in the display, relay output controller K1 is inactive
Approvals:	TÜV 15 ATEX 163874 X Ⓔx II (1) G [Ex ia Ga] IIC Ⓔx II (1) D [Ex ia Da] IIIC IECEx TUN 16.0022X [Ex ia Ga] IIC [Ex ia Da] IIIC
Product marking:	CE, Ex

Display and control elements:
Legend: Comment:

3 - LCD display:	black/white with backlight, 96 x 64 pixels
6 - LED K1 (yellow):	lights up when the relay output controller K1 is active.
7 - LED K2 (yellow):	lights up when the relay output limit value K2 is active.
8 - keys:	(can only be operated when the transparent hood is folded upward)

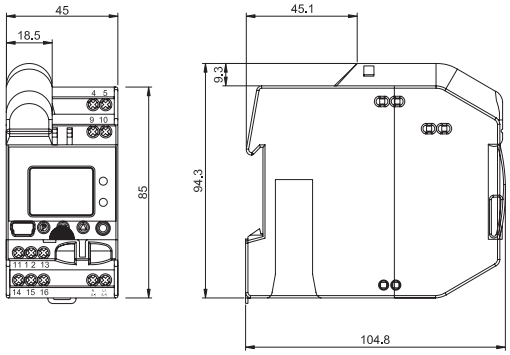
- increase value
- decrease value
- programming
- exit

12 - setup interface

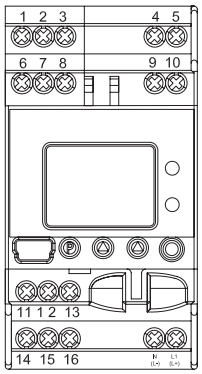


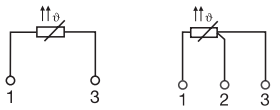
Dimensions:

width:	45.0 mm
length:	85.0 mm
depth:	104.8 mm

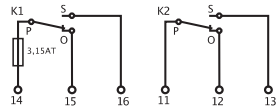


Wiring diagram:





Analog input
PT100 sensor 2-wire circuit
PT100 sensor 3-wire circuit



Relay outputs
K1- control relay - potential free
14-15 NC
14-16 NO

K2 - limit volume relay - potential free
11-12 NC
11-13 NO

Power supply
L1 - line wire
N - neutral wire

Accessories:

Temperature sensor dedicated for hazardous areas:	RTD Ex Ch.P 903525/50

ELEKTRA
Temperature Controllers

iTRON DR100

iTRON DR 100 electronic temperature controller designed for the control of heating systems, especially recommended for frost protection applications and maintenance of the required pipeline temperature. The temperature values are measured with a surface sensor and displayed on the LCD screen which enables easy readout of the measured and set temperature values, as well as configuration of the device. Entering required operation parameters proceeds in a fast and easy way: the selected values are automatically entered as valid after 2 sec., no additional confirmation is required. The controller is mounted on DIN rails and connected up via screw terminals with a max. conductor cross-section of 2.5 mm^2. The device can be configured from the level of the front-panel buttons, or optionally from the level of the software.

Application:
For DIN-bus installation in electric switchboards in non-hazardous areas.

This package contains:
- **ELEKTRA iTRON DR100 controller,**
- **instruction manual.**

> Technical data:

Temperature measurement range:	-200°C ÷ +800°C
Operating temperature:	0°C ÷ +55°C
Storage temperature:	-30°C ÷ +70°C
Climate conditions:	75% rel. humidity without condensation
Work indication:	LED

Electric data:

power supply voltage:	230 V AC +10%/-15%, 48-63 Hz
power consumption:	5 VA
relay:	two single-pole single-throw (SPST) NO contacts, rated current 3A
contact durability:	min. 100K operations at the resistive load 3A/250 V AC
logic output:	0/12 V, 0/20 mA (short circuit protected)

Enclosure:

material:	polyamide
protection:	IP 20
installation:	DIN bus
operating position:	vertical
terminals:	screw terminals for cables of max. cross-section 2.5 mm^2

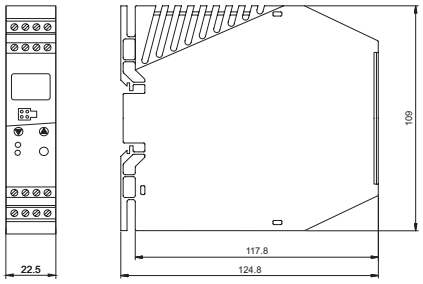
Temperature sensor:

type:	PT100 sensor, 2- or 3-wire connection sensor (separately available) circuit break or short circuit detected automatically, setting the output for the user's selected status: ON or OFF
hysteresis:	0.1%

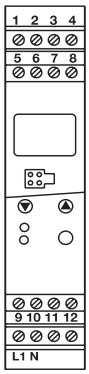
Product marking:	CE, UL, EAC
Approvals:	EN 61326-1 UL 61010-1 CSA C22.2 No. 61010-1

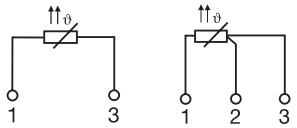
Dimensions:

width:	22.5 mm
length:	109.0 mm
depth:	124.8 mm

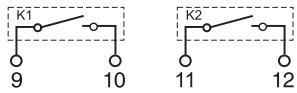


Wiring diagram:

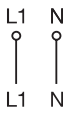




Analog input
PT100 sensor 2-wire circuit
PT100 sensor 3-wire circuit



Relay outputs
K1- potencial free NO
K2 potential free NO



Power supply
L1 - line wire
N - neutral wire

Accessories:

Temperature sensor dedicated for non-hazardous areas:	RTD 902150/10

TDR 4022 PT100-PROi

ELEKTRA
Temperature Controllers

The ELEKTRA TDR 4022 PT100-PROi electronic temperature controller is designed for pipe heating systems, including anti-frost protection, and maintaining the desired pipeline temperature. The temperature controller has got two freely configurable relays, the digital input, the port for direct RS-485 bus connection, as well as the analog output. The TTL port gives the optional possibility to connect the configuration Unicard with the USB port. The controller cooperates with BMS systems via ModBus or Televis protocols, or in an analog mode via a relay operating in the alarm mode. Produced in accordance with the EN 60730-1 and EN 60730-2-9 standards.

This package contains:

- **TDR 4022 PT100-PROi controller,**
- **temperature sensor PT100 ESN206081 with 3 m tail, and special end protective spring,**
- **installation manual.**

PT100 ESN206081

> Technical data:

TDR 4022 PT100-PROi

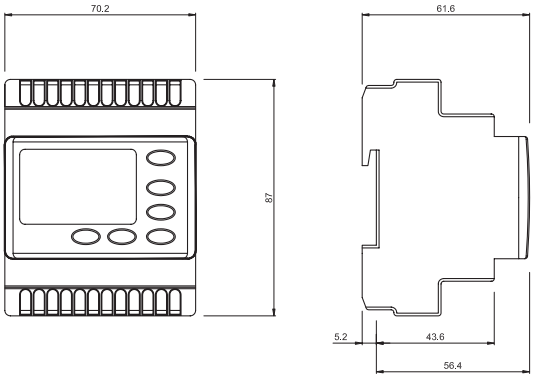
Power supply:	100-240 V ~ 50/60 Hz
Max. load:	2 x 8A, 230 V ~ 50/60 Hz (potential free relays)
Analog output:	V: 0...1 V, 0...5 V, 0...10 V, I: 0...20 mA, 4...20 mA
Installation:	DIN-rail
Temperature range:	-200°C ÷ +800°C
Hysteresis:	0.1 … 30 K
Controller protection:	IP 20
Work signalization:	LED
Operating temperature:	-5°C ÷ +55°C
Dimensions (H x W x D):	85 x 70 x 61 mm
Modules:	4
Product marking:	CE

PT100 ESN206081

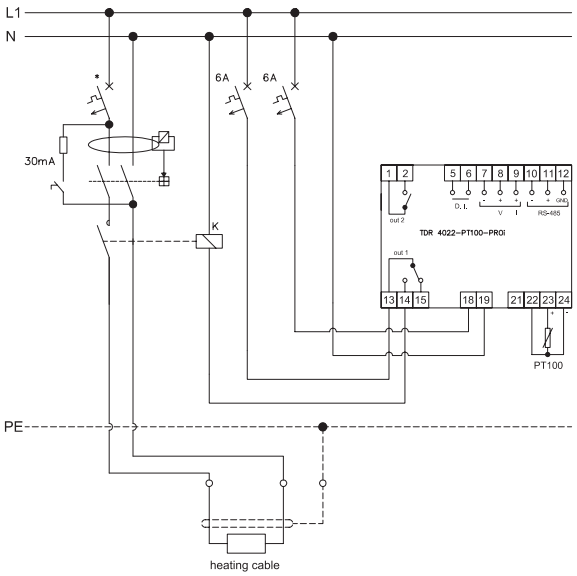
Mounting:	on pipe
Sensor protection:	IP 67
Length:	3 m
Operating temperature:	-30°C ÷ +200°C

> Dimensions:

height:	87.0 mm
width:	70.2 mm
depth:	61.6 mm



> Wiring diagram:



* The safety amperage value and characteristics of the circuit breaker depends on the power and type of the heating cable.

ETI 1221-PROi

ELEKTRA
Temperature Controllers

The electronic temperature controller ELEKTRA ETI 1221-PROi is designed to control temperature in industrial heating systems, such as tanks, vessels and pipelines. Temperature control range: +10°C to +110°C. Produced in accordance with EN 60730-1 and EN 60730-2-9.

This package contains:

- **ETI 1221 controller,**
- **ETF 622 temperature sensor with 2,5 m tail, and special installation opening,**
- **instruction manual.**

ETF-622

> Technical data:

ETI 1221

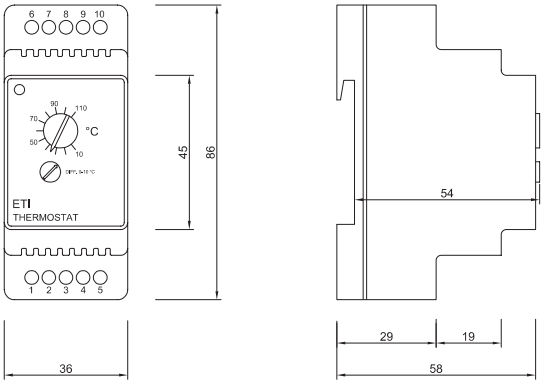
Power supply:	230 V ~ 50/60 Hz
Max. load:	10A
Installation:	DIN-rail
Temperature range:	+10°C ÷ +110°C
Difference/Hysteresis:	0.3 ÷ 10K
Controller protection:	IP 20
Signalization:	LED
Working temperature:	-20°C ÷ +50°C
Dimensions (H x W x D):	86 x 36 x 58 mm
Modules:	3
Certificates:	EAC
Product mark:	CE

ETF-622

Installation:	on pipe
Protection:	IP 44
Length:	2.5 m
Working temperature:	-40°C ÷ +120°C

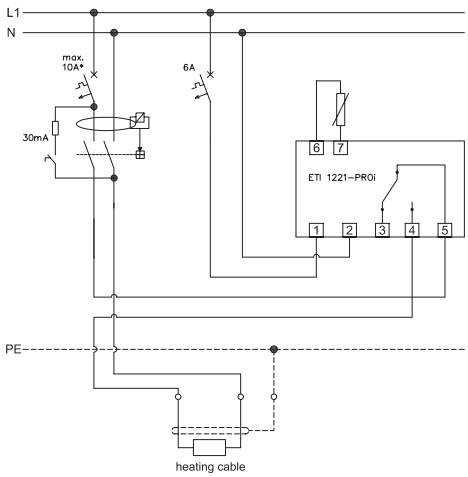
> Dimensions:

height:	86 mm
width:	36 mm
depth:	58 mm



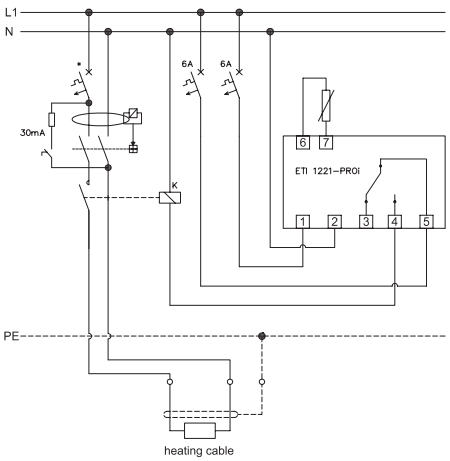
> Wiring diagram:

direct connection



* The characteristics of the circuit breaker depends on the power and type of the heating cable.

connection with contactor



* The safety amperage value and characteristics of the circuit breaker depends on the power and type of the heating cable.

ETI 1551-PROi

ELEKTRA
Temperature Controllers

The electronic temperature controller ELEKTRA ETI 1551-PROi is designed to control temperature in industrial heating systems, such as tanks, vessels and pipelines. Temperature control range: -10°C to +50°C Produced in accordance with EN 60730-1 and EN 60730-2-9.

This package contains:

- **ETI 1551 controller,**
- **ETF-622 temperature sensor with 2,5 m tail, and special installation opening,**
- **instruction manual.**

ETF-622

> Technical data:

ETI 1551

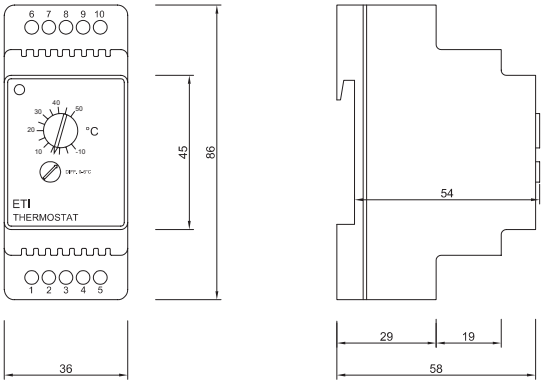
Power supply:	230 V ~ 50/60 Hz
Max. load:	10A
Installation:	DIN-rail
Temperature range:	-10°C ÷ +50°C
Difference/Hysteresis:	+0.3 ÷ 10K
Controller protection:	IP 20
Signalization:	LED
Working temperature:	-20°C ÷ +50°C
Modules:	3
Certificates:	EAC
Product mark:	CE

ETF-622

Installation:	on pipe
Protection:	IP 44
Length:	2.5 m
Working temperature:	-40°C ÷ +120°C

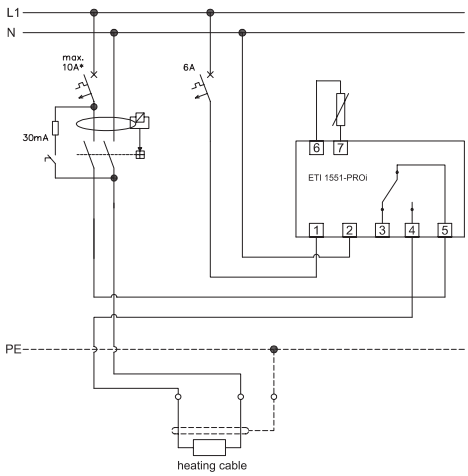
> Dimensions:

height:	86 mm
width:	36 mm
depth:	58 mm



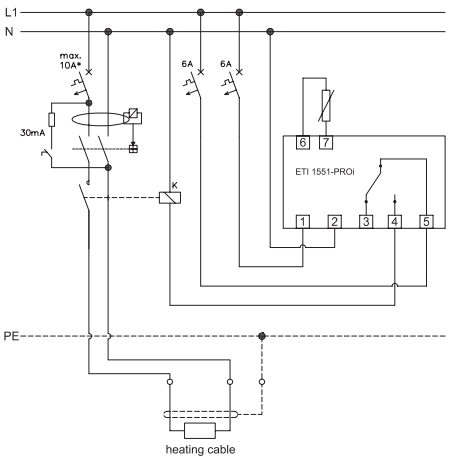
> Wiring diagram:

direct connection



* The characteristics of the circuit breaker depends on the power and type of the heating cable.

connection with contactor



* The safety amperage value and characteristics of the circuit breaker depends on the power and type of the heating cable.

RTD Ex Ch.P
903525/50

ELEKTRA
Temperature Sensors

The push-in RTD Ex Ch.P 903525/50 sensor connected to the junction box, due to its dedicated design optimally matches the demanding requirements of the industrial operating environment. The sensor is certified for applications in hazardous areas. It is dedicated to perform temperature measurements of pipelines or tanks. A 3-wire PT100 temperature sensor is used as a measuring element. The RTD Ex Ch.P 903525/50 sensor can be used for applications in the temperature range from -70°C to +500°C.

Application:

The sensor is dedicated for exTHEMR-DR.
Hazardous areas: zone 1 (for gases and vapours) and zone 20 (for electrically conductive dust).
Non-hazardous areas.

This package contains:

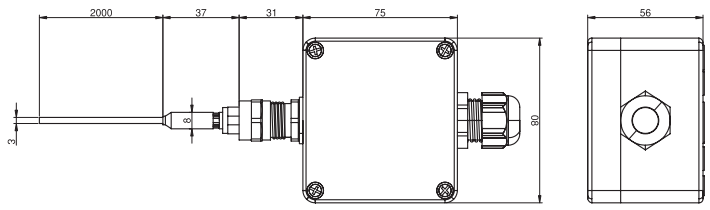
- **RTD Ex Ch.P 903525/50 sensor.**

> Technical data:

Approvals:	II 2/2 G Ex eb IIC T510°C-T5/T6 Gb/Gb II 1/1 D Ex ta IIIC T200 T93°C-T510°C/T85°C Da/Da Un:25V In:50mA Pn:125mW II 2/2 G Ex eb IIC T510°C-T6/T6 Gb/Gb II 1/1 D Ex ta IIIC T200 T85°C-T510°C/T85°C Da/Da Un:28V In:2mA LCIE 03 ATEX 6088 X IECEx LCIE 13.0060 X
Sensor:	
type:	PT100 (3-wire)
tolerance class:	class B
material:	connection cable and tip: stainless steel (CrNi) 1.4404
operating temperature:	-70°C ÷ +500°C
length:	2.0 m
diameter:	3.0 mm
min. bending radius:	connection cable: 20 mm do not bend the sensor
connection:	tinned cable endings
Enclosure:	
material:	polyester case, glass-fibre reinforced
protection:	IP66
gland:	M16
operating temperature:	-50°C ÷ +60°C
cover screws:	stainless steel
cover seal:	silicone rubber

> Dimensions:

height:	75 mm
width:	80 mm
depth:	56 mm



> Accessories:

Support bracket:	BM 08-PROi

RTD 902150/10

ELEKTRA
Temperature Sensors

The push-in RTD 902150/10 sensor can be used in electronic control systems which require accurate temperature measurements.

A 2-wire PT100 temperature sensor is used as a measuring element. The RTD 902150/10 sensor can be used for applications in the temperature range from -50°C to +180°C.

Application:
The sensor is dedicated for iTRON DR100.
Non-hazardous areas.

This package contains:
- **RTD 902150/10.**

> Technical data:

Type:	PT100 (2-wire)
Tolerance class:	class B
Material:	
sensor:	stainless steel (CrNi) 1.4571
connection cable:	silicone
Working temperature:	-50°C ÷ +180°C
Length:	2.5 m
Diameter:	
sensor:	6.0 mm
connection cable:	4.5 mm
Min. bending radius:	connection cable: 5 mm do not bend the sensor
Connection:	ferrules

ELEKTRA
Temperature Sensors

RTD 902150/10/3

The push-in RTD 902150/10/3 sensor can be used in electronic control systems which require accurate temperature measurements.

A 3-wire PT100 temperature sensor is used as a measuring element. The RTD 902150/10/3 sensor can be used for applications in the temperature range from -50°C to +180°C.

Application:
The sensor is dedicated for iTRON DR100.
Non-hazardous areas.

This package contains:
- **RTD 902150/10/3.**

> Technical data:

Type:	PT100 (3-wire)
Tolerance class:	class B
Material:	
sensor:	stainless steel (CrNi) 1.4571
connection cable:	silicone
Working temperature:	-50°C ÷ +180°C
Length:	2.5 m
Diameter:	
sensor:	6.0 mm
connection cable:	4.5 mm
Min. bending radius:	connection cable: 5 mm do not bend the sensor
Connection:	ferrules

BM16-PROi

ELEKTRA
Installation Accessories

BM16-PROi support bracket for the ELEKTRA MBP 161690 junction box. Support brackets can be used to assist installation of ELEKTRA MBP junction boxes on pipes. Additional pipe stainless steel metal straps are required for installation, to be ordered separately. The brackets include a set of screws, nuts and plain washers required for the installation of one junction box.

This package contains:

- **stainless steel support bracket,**
- **plain washers,**
- **screws,**
- **nuts.**

> Technical data:

Dimensions:	
plate:	160 x 160 mm
distance pipe-plate:	150 mm
Required number of straps for installation of one bracket:	2 pcs
Max. operating temperature:	+230°C
Material:	stainless steel (CrNi) 1.4301

ELEKTRA
Installation Accessories

BM 13-PROi

BM13-PROi support bracket for the ELEKTRA EBP 1313-PROi, MBP 121290 junction boxes and exTHERM-AT temperature controller. Support brackets can be used to assist installation of junction boxes or temperature controller on pipes. Additional pipe stainless steel metal straps are required for installation, to be ordered separately. The brackets include a set of screws, nuts and plain washers required for the installation of one junction box.

This package contains:

- **stainless steel support bracket,**
- **plain washers,**
- **screws,**
- **nuts.**

> Technical data:

Dimensions:	
plate:	130 x 130 mm
distance pipe-plate:	150 mm
Required number of straps for installation of one bracket:	2 pcs
Max. operating temperature:	+230°C
Material:	stainless steel (CrNi) 1.4301

BM 08-PROi

ELEKTRA
Installation Accessories

BM 08-PROi support bracket for the ELEKTRA EBP 0606-PROi junction box and RTD Ex Ch.P 903525/50 temperature sensor. Support brackets can be used to assist installation of junction box or temperature sensor on pipes. Additional pipe stainless steel metal straps are required for installation, to be ordered separately. The brackets include a set of screws, nuts and plain washers required for the installation of one junction box or temperature sensor.

This package contains:

- **stainless steel support bracket,**
- **plain washers,**
- **screws,**
- **nuts.**

> Technical data:

Dimensions:	
plate:	80 x 80 mm
distance pipe-plate:	105 mm
Required number of straps for installation of one bracket:	2 pcs
Max. operating temperature:	+230°C
Material:	stainless steel (CrNi) 1.4301

ELEKTRA
Installation Accessories

BMC-PROi

Stainless steel metal strap assisting the installation of support brackets.

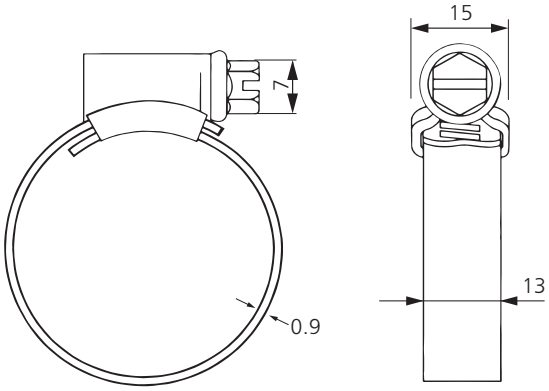
This package contains:

- **BMC-PROi strap.**

> Technical data:

Material:	stainless steel
Type:	range:
BMC 30-PROi	22-30 mm (7/8 - 1 1/2 inch)
BMC 50-PROi	35-50 mm (1 3/8 - 2 inch)

Dimensions in mm:



BMC-PROi

ELEKTRA
Installation Accessories

Stainless steel metal strap assisting the installation of suport brackets.

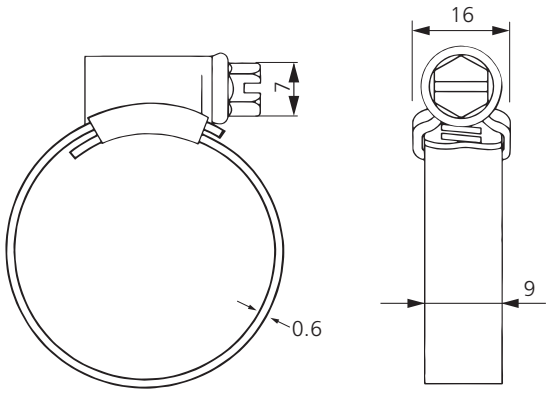
This package contains:

- **BMC-PROi strap.**

> Technical data:

Material:	stainless steel
Typ:	range:
BMC 100-PROi	50-100 mm (2 - 4 inch)
BMC 170-PROi	60-170 mm ($2^{3}/_{8}$ - $6^{5}/_{8}$ inch)
BMC 315-PROi	60-315 mm ($2^{3}/_{8}$ - $12^{2}/_{5}$ inch)
BMC 650-PROi	60-650 mm ($2^{3}/_{8}$ - $25^{3}/_{5}$ inch)

Dimensions in mm:

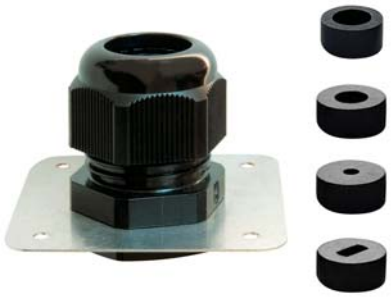


ELEKTRA
Installation Accessories

EK-PROi

Under insulation entry kit with M25 gland. The EK-PROi kit is dedicated to the protection of self-regulating heating cables, power cables and temperature sensors when passing through the metal sheet and thermal insulation claddings suited for use on pipes, tanks and vessels.

The ELEKTRA EK-PROi optimally matches the installation requirements of the self-regulating heating cables. The kit can be used in both hazardous and non-hazardous areas. The gland and the gaskets included in the kit provide efficient protection against moisture penetration as well as ultimate mechanical protection, without compromising the continuity of thermal insulation. The kit contains a stainless steel plate to be screwed to the cladding.



This package contains:

- **stainless steel plate,**
- **gland,**
- **locknut,**
- **gasket for the heating cable,**
- **gasket for a sensor with a diameter of 2-5 mm,**
- **gasket for a sensor with a diameter of 5-8 mm,**
- **gasket for the power cable with a diameter of 6-13mm.**

> Technical data:

Dimensions:	plate 60 x 60 mm
plate:	60 x 60 mm
gland:	M25
Max. operating temperature:	+110°C
Material:	stainless steel

RM25/16

ELEKTRA
Installation Accessories

RM25/16 reducer with a M16 cable gland have been desiged for entering power supply cables into MBP 121290 and MBP 161690 junction boxes. The reducer is dedicated to situations when it is necessary to enter the power supply cable of the diameter smaller than required for the M25 gland typical for MBP junction boxes. Application of the RM25/16 reducer enables to enter the power supply cables of the diameters within the range of 4.5 – 10mm.

The dedicated design of the reducer and gland enable both to fulfill all requirements valid for hazardous zones 1 and 2, as well as 21 and 22.

This package contains:

- **Ex M25/16 reducer,**
- **Ex e M16 cable gland.**

> Technical data:

Cable gland:	M16
Reducer:	25/16 mm
Reducer tool size:	36mm
Reducer thread length:	15mm
Product marking:	CE, Ex

ELEKTRA
Installation Accessories

Installation tapes

AL-TAPE-PROi

Aluminium tape for assisting the length-wise installation of the heating cables on pipes, and ensuring even heat distribution.

Max. operating temperature: +145°C
Length: 55 m

SG-TAPE-PROi

Fiberglass reinforced tape with a silicone self-adhesive system for assisting the fixing of the heating cables on pipes.

Max. operating temperature: +180°C
Length: 20 m

RG-TAPE-PROi

Fiberglass reinforced tape with a rubber self-adhesive system for assisting the fixing of the heating cables on pipes.

Max. operating temperature: +130°C
Length: 20 m

CL-PRO caution label

The technical specifications and data given in the catalogue are subjects to change without notice. Claims for damages resulting from modifications of catalogue information, incorrect data or printing errors will not be acknowledged.

Please note that all domestically applicable standards and safety regulations should be consulted before actual application of catalogue products or solutions, and relevant manuals and instructions should be applied before installation and operation.

Additionally, ELEKTRA reserves the right to implement alterations into processes or materials applied, which will not disagree with any relevant standards or specifications, without prior notification.

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