





Product		Installation in Zone				Series	Page	WebCode	
	0	1	2	20	21	22			
Components for Heating Systems									
Capillary Tube Thermostat – Pipe Mounted		٠	٠				TEF1058	573	T1058I
Capillary Tube Thermostat – Wall Mounted		٠	٠				TEF1058	571	T1058H
Enclosure Heater with Connection Line 120/240 V AC, T4		٠	٠				TEF9202	587	T9202A
Enclosure Heater with Connection Line 120 V AC, T4		٠	٠				TEF9209	601	T9209A
Enclosure Heater with Connection Line 240 V AC, T3		٠	٠				TEF9207	589	T9207A
Enclosure Heater with Connection Line 240 V AC, T4		٠	٠				TEF9208	595	T9208A
Enclosure Heater with Junction Box 120 V AC, T4		٠	•				TEF9209	603	T9209B
Enclosure Heater with Junction Box 240 V AC, T3		٠	٠				TEF9207	591	T9207B
Enclosure Heater with Junction Box 240 V AC, T4		٠	٠				TEF9208	597	T9208B
Enclosure Heater with Junction Box and Thermostat 120 V AC, T4		٠	٠				TEF9209	605	T9209C
Enclosure Heater with Junction Box and Thermostat 240 V AC, T3		٠	٠				TEF9207	593	T9207C
Enclosure Heater with Junction Box and Thermostat 240 V AC, T4		٠	٠				TEF9208	599	T9208C
Junction Box – Pipe Mounted for Heat Tracing		٠	٠				TEF1058	567	T1058E
Junction Box – Pipe Mounted for Heat Tracing / De-Ice		٠	٠				TEF1058	569	T1058J
Junction Box – Wall Mounted for Heat Tracing		٠	٠				TEF1058	563	T1058F
Junction Box – Wall Mounted for Heat Tracing / De-Ice		٠	٠				TEF1058	565	T1058K
High Voltage Enclosure									
High Voltage Enclosure A-BLOCK SYSTEM		٠	٠				TEF1060	558	T1060A
High Voltage Enclosure BUS-BAR SYSTEM		٠	٠				TEF1060	560	T1060B
Lighting									
Helideck Floodlight LED		٠	•				TEF9970	583	T9970A
Integrated Helideck Light Control Zone 1 or Non-Ex Versions		٠					TEF4600	585	T4600A
Navigation Light Zone 2			•				TEF2870	575	T2870A
Obstruction Light LED		•	•				TEF2460	579	T2460A
Perimeter Light LED		•	•				TEF2460	577	T2460B
Status Light		٠	٠				TEF9980	581	T9980A

For additional products and information please refer to r-stahl.com

E6



High Voltage Enclosure Series TEF1060 A-BLOCK SYSTEM





· Compact solutions; flexible design

- Up to 100A; up to 11kV
- CU bar for earthing
- Bottom side entries
- · Can be used in Non Ex environments
- Safety cover IP2X
- Hinged door; padlock facility
- ATEX and IECEx approved
- Up to 50 mm² (35 mm² with ferrules)
- Suitable for DC solutions

Έx

• Optional: fiber Optical solutions, high voltage and low voltage terminals, Ex safety switch, Ex heater

WebCode T1060A



s steel, AISI 316L, pickled Product Type Art. No	
	PS
	70
² , grey TEF1063159 259380	70
TEF1063153 259399	70
	70
n², grey TEF1063156 259394	70
s steel, AISI 316L, pickled	
Product Type Art. No	PS
² , grey TEF1063251 259402	70
² , grey TEF1063255 259397	70
² , grey TEF1063259 259379	70
n², grey TEF1063253 259396	70
	• 70
n², grey TEF1063256 259393	70
r r r	r², grey TEF1063153 259399 m², grey TEF1063154 259398 m², grey TEF1063156 259394 m², grey TEF1063156 259394 m², grey TEF1063156 259394 m², grey TEF1063156 259394 m², grey TEF1063251 259402 1 Product Type Art. No. 12 Product Type Art. No. 14 Product Type 259402 15 TEF1063251 259397 16 TEF1063255 259397 17 TEF1063259 259379 17 TEF1063253 259396 17 TEF1063254 259395



Selection Table				
Enclosure material Rated operational voltage AC	1.4404 stainless steel, AISI 316L, pickled 6.9 kV			
Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
250 mm x 300 mm x 210 mm	6 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063351	259392	70
	6 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063353	259390 🔺	70
	9 x Phoenix UT 2-conductor, 6 mm ² , grey	TEF1063355	259387	70
300 mm x 300 mm x 210 mm	9 x Phoenix UT 2-conductor, 16 mm ² , grey	TEF1063356	259383	70
300 mm x 350 mm x 210 mm	16 x Phoenix UT 2-conductor, 6 mm², grey	TEF1063359	259378	70

Explosion Protection Ex eb IIC T6/T5/T4 Gb IECEx gas explosion protection I I 2 G Ex eb IIC T6/T5/T4 Gb Ambient Conditions III 2 G Ex eb IIC T6/T5/T4 Gb Ambient temperature -25 °C +40 °C (IIC T6) -25 °C +40 °C (IIC T5) -25 °C +40 °C (IIC T5) -25 °C +40 °C (T4)	
ATEX gas explosion protection Image: Ima	
Ambient Conditions -25 °C +40 °C (IIC T6) Ambient temperature -25 °C +40 °C (IIC T5) -25 °C +40 °C (T4) -25 °C +40 °C (T4)	
Ambient temperature -25 °C +40 °C (IIC T6) -25 °C +40 °C (IIC T5) -25 °C +40 °C (T4)	
-25 °C +40 °C (IIC T5) -25 °C +40 °C (T4)	
Mechanical Data	
Degree of protection (IP) IP66	
Silicone-free Yes	

E6



High Voltage Enclosure Series TEF1060 BUS-BAR SYSTEM





- Standardized for bottom side entries
- All CU connection bars are tinned
- · All products delivered with Tranberg cable glands
- Bright chemical dip surface threated
- Material: AISI316L
- ATEX and IECEx certified
- Up to 11kV
- Optional: lifting lugs (certified to Standard 2.7.1), short circuit devices, Tranberg enclosure heater with thermostat, cable cleats, optical fiber, padlock facility termination, Ex i safety switch, 3-phase or single core plug-in solution, Non-Ex solutions, customizing for top- or side entries, MCT frames, gland plates, Ex enclosure heater





The High Voltage solution with tinned copper bus-bars combined with the use of Ex-certified Isolators.

3 different types of bus-bar solutions available:

- Type-R with rectangular bus-bar
- Type-C with rectangular bus-bar assembled in a curved frame system
- Type-G with G-profile bus-bar

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description Enclosure version	High-voltage enclo Type C - Solution (sure with busbars Curved Profile CU Bus-Bars)			
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
2.1 kA	1500 mm x 1500 mm x 700 mm	3 x C-12H busbar Ø12-2100A-2x100/10	TEF1063425	259349	70
500 A	600 mm x 1000 mm x 400 mm	3 x C-6H busbar Ø10-500A	TEF1063416	259361 🔺	70
	700 mm x 1100 mm x 450 mm	3 x C-6H busbar Ø10-500A	TEF1063420	259355	70
	900 mm x 1100 mm x 500 mm	3 x C-6H busbar Ø10-500A	TEF1063424	259351 🔺	70
950 A	675 mm x 1100 mm x 400 mm	3 x C-8H busbar Ø10-950A-100/10	TEF1063419	259358	70
	800 mm x 1100 mm x 450 mm	3 x C-8H busbar Ø10-950A-100/10	TEF1063423	259352	70
Product Description Enclosure version	High-voltage enclo Type G - Solution (sure with busbars G-Profile CU Bus-Bars)			
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No.	PS
490 A	500 mm x 950 mm x 350 mm	3 x G-4H busbar Ø10-490A	TEF1063443	259372	70
	600 mm x 1000 mm x 400 mm	3 x G-4H busbar Ø10-490A	TEF1063445	259365	70
	750 mm x 1200 mm x 500 mm	3 x G-4H busbar Ø10-490A	TEF1063447	259357 🔺	70



Selection Table				
Product Description Enclosure version		osure with busbars (G-Profile CU Bus-Bars)		
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No. F
850 A	550 mm x 950 mm x 350 mm	3 x G-4H busbar Ø10-850A-100/10	TEF1063444	259370
	700 mm x 1000 mm x 400 mm	3 x G-4H busbar Ø10-850A-100/10	TEF1063446	259364
	800 mm x 1200 mm x 500 mm	3 x G-4H busbar Ø10-850A-100/10	TEF1063448	259356
Product Description Enclosure version		osure with busbars (Rectangular CU Bus-Bars)		
Rated operational current	Dimensions (WxHxD)	Type of terminals 1	Product Type	Art. No. F
250 A	450 mm x 550 mm x 200 mm	3 x R-2H busbar Ø8-250A-30/10	TEF1063401	259377
	500 mm x 650 mm x 275 mm	3 x R-2H busbar Ø8-250A-30/10	TEF1063403	259374
	625 mm x 900 mm x 300 mm	3 x R-2H busbar Ø8-250A-30/10	TEF1063405	259369
430 A	625 mm x 900 mm x 300 mm	3 x R-2H busbar Ø10-432A	TEF1063406	259368
432 A	450 mm x 550 mm x 200 mm	3 x R-2H busbar Ø10-432A	TEF1063402	259376 🔺 🗍
	500 mm x 650 mm x 275 mm	3 x R-2H busbar Ø10-432A	TEF1063404	259373

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex eb IIC T6/T5/T4 Gb
ATEX gas explosion protection	B II 2 G Ex eb IIC T6/T5/T4 Gb
Electrical Data	
Rated operational voltage AC	3.5 kV
Ambient Conditions	
Ambient temperature	-20 °C +40 °C (IIC T6) -20 °C +40 °C (IIC T5) -25 °C +40 °C (T4)
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel, AISI 316L, pickled
Silicone-free	Yes

E6







- · Designed for one cable in and one cable out each phase
- A cost effective solution
- Designed for 300 mm²
- · Available with certified cable cleats
- Withstand short-circuit for even 50 kA





G-Profile

- Compact solutions
- · Designed for even 4 cables each phase
- Max. 300 mm²
- Withstand short-circuit for even 50 kA
- Max. current load 960 A

C-Profile (Curved)

- Easy installation
- Adjustable bars to compensate for bending radius
- Can be delivered up to 2100 A
- "Unlimited" numbers of cables



Junction Box – Wall Mounted Series TEF1058 for Heat Tracing

High degree of protection, IP66/67, IP67 without breather

Manufactured in acid proof stainless steel (AISI 316L)

Stainless steel Type Label spot welded to the cover

Maximum strength and corrosion resistance

Recommended for up to 2 heating cables

Several earthing alternatives

Low lifetime maintenance cost

High operational reliability

STAHL



WebCode T1058F



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Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industries and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table			
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished		
Description	Product Type	Art. No.	PS
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581138	259489 🔺	70
Junction box with 4 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581128	259488 🔺	70
Enclosure material	1.4404 stainless steel, AISI 316L, pickled		
Description	Product Type	Art. No.	PS
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581118	259487	70
Junction box with 4 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581108	259486 🔺	70

Technical Data		
Explosion Protection		
IECEx gas explosion protection	Ex eb IIC T5 Gb	
ATEX gas explosion protection	II 2 G Ex eb IIC T5 Gb	
Ambient Conditions		
Ambient temperature	-50 °C +50 °C	
Mechanical Data		
Degree of protection (IP)	IP66	



Junction Box – Wall Mounted Series TEF1058 for Heat Tracing

Technical Data		
Mechanical Data		
Degree of protection IP (IEC 60529)	IP67	
Silicone-free	No	
Clamping range max.	4 mm ²	
Connection cross-section	4 mm ²	

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations









TEF10581108 and TEF10581128

TEF10581118 and TEF10581138

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82 [3,23] 112 [4,41]



Junction Box – Wall Mounted Series TEF1058 for Heat Tracing / De-Ice

High degree of protection, IP66/67, IP67 without breather

Manufactured in acid proof stainless steel (AISI 316L)

Stainless steel Type Label spot welded to the cover

Maximum strength and corrosion resistance

Recommended for up to 2 heating cables

Several earthing alternatives

Low lifetime maintenance cost

High operational reliability





WebCode T1058K



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Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATE	EX / IE	ECEx			
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table			
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished		
Description	Product Type	Art. No.	PS
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs 1 pc. breather 2 pc. temporary plugs	TEF10581638	259493 🔺	70
Junction box with 7 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581648	259492 🔺	70
Enclosure material	1.4404 stainless steel, AISI 316L, pickled		
Description	Product Type	Art. No.	PS
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs 1 pc. breather 2 pc. temporary plugs	TEF10581618	259491 🔺	70
Junction box with 7 pc. Ø25 entries (with temporary plugs) Note: Label Kit not included	TEF10581608	259490 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex eb IIC T5 Gb
ATEX gas explosion protection	🐼 II 2 G Ex eb IIC T5 Gb
Ambient Conditions	
Ambient temperature	-50 °C +50 °C



Junction Box – Wall Mounted Series TEF1058 for Heat Tracing / De-Ice

Technical Data	
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection IP (IEC 60529)	IP67
Silicone-free	No
Clamping range max.	6 mm ²
Connection cross-section	6 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations













148 [5,83]

TEF10581618 and TEF10581638

TEF10581608 and TEF10581648



Junction Box – Pipe Mounted Series TEF1058 for Heat Tracing

High degree of protection, IP66/67, IP67 without breather

Manufactured in acid proof stainless steel (AISI 316L)

Stainless steel Type Label spot welded to the cover

Maximum strength and corrosion resistance

Recommended for up to 2 heating cables

Several earthing alternatives

Low lifetime maintenance cost

High operational reliability

STAHL



WebCode T1058E



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Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATE	EX / IE	ECEx			
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table			
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished		
Description	Product Type	Art. No.	PS
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581136	259481	70
Junction box with 4 pc. Ø25 entries Note: Label kit not included	TEF10581126	259480 🔺	70
Enclosure material	1.4404 stainless steel, AISI 316L, pickled		
Description	Product Type	Art. No.	PS
Junction box with 1 pc. cable gland E204/622 M25/D9 (Ø13 – 17 mm) 1 pc. stopping plug M25 1 pc. breather M25	TEF10581116	259479 🔺	70
Junction box with 4 pc. Ø25 entries Note: Label kit not included	TEF10581106	259478 🔺	70

Technical Data		
Explosion Protection		
IECEx gas explosion protection	Ex eb IIC T5 Gb	
ATEX gas explosion protection	II 2 G Ex eb IIC T5 Gb	
Ambient Conditions		
Ambient temperature	-50 °C +50 °C	
Mechanical Data		
Degree of protection (IP)	IP66	

▲ Preferred products – in stock or available at short notice 25-Oct-2019. PK·en



Junction Box – Pipe Mounted Series TEF1058 for Heat Tracing

Technical Data	
Mechanical Data	
Degree of protection IP (IEC 60529)	IP67
Silicone-free	No
Clamping range max.	4 mm ²
Connection cross-section	4 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations











TEF10581116 and TEF10581136



82 [3,23] 112 [4,40]

TEF10581106 and TEF10581126



Junction Box – Pipe Mounted Series TEF1058 for Heat Tracing / De-Ice

High degree of protection, IP66/67, IP67 without breather

Manufactured in acid proof stainless steel (AISI 316L)

Stainless steel Type Label spot welded to the cover

Maximum strength and corrosion resistance

Recommended for up to 4 heating cables

Several earthing alternatives

Low lifetime maintenance cost

High operational reliability





WebCode T1058J



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Tranberg heat trace boxes are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATE	EX / IE	ECEx			
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table			
Enclosure material	1.4404 stainless steel, (AISI 316L), electropolished		
Description	Product Type	Art. No.	PS
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs M25 1 pc. breather M25	TEF10581636	259484 🔺	70
Junction box with 5 pc. Ø25 entries (with temporary plugs) Note: Label kit not included	TEF10581646	259485 🔺	70
Enclosure material	1.4404 stainless steel, AISI 316L, pickled		
Description	Product Type	Art. No.	PS
Junction box with 2 pc. cable glands E204/622 M25/D9 (Ø13 – 17 mm) 2 pc. stopping plugs M25 1 pc. breather M25	TEF10581616	259483 🔺	70
Junction box with 5 pc. Ø25 entries (with temporary plugs) Note: Label kit not included	TEF10581606	259482 🔺	70

Technical Data		
Explosion Protection		
IECEx gas explosion protection	Ex eb IIC T5 Gb	
ATEX gas explosion protection	II 2 G Ex eb IIC T5 Gb	
Ambient Conditions		
Ambient temperature	-50 °C +50 °C	
Mechanical Data		
Degree of protection (IP)	IP66	



Junction Box – Pipe Mounted Series TEF1058 for Heat Tracing / De-Ice

Technical Data	
Mechanical Data	
Silicone-free	No
Clamping range max.	6 mm ²
Connection cross-section	6 mm ²
nnection cross-section	6 mm ²

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



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120 [4,72] 136 [5,35] 148 [5,83]



104 [4,10]



~ 333 [~ 13,11]

184 [7,24]

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178 [7,01] TEF10581606 and TEF10581646

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21 [0,83]

110 [4,33]

150 [5,91]

178 [7,01] TEF10581616 and TEF10581636

150 [5,91]



Capillary Tube Thermostat – Wall Mounted Series TEF1058

Several earthing alternatives

Low lifetime maintenance cost

High operational reliability

High degree of protection IP66/67 is standard, IP67 without breather

Manufactured in acid proof stainless steel (AISI 316L)

Stainless steel type label spot welded to the cover

Maximum strength and corrosion resistance

Recommended for up to 4 heating cables

STAHL



WebCode T1058H



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Tranberg's thermostats are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Product Description	Temperature controller wall mountir	g		
Measuring range	Contacts	Product Type	Art. No.	PS
-20 50 °C	1 change-over contact	TEF10582580	259553 🔺	70
0 120 °C	1 change-over contact	TEF10582581	259554 🔺	70
0 200 °C	1 change-over contact	TEF10582582	259555 🔺	70
50 300 °C	1 change-over contact	TEF10582583	259556	70

Technical Data		
Explosion Protection		
IECEx gas explosion protection	Ex db eb IIC T6	
ATEX gas explosion protection	ௐ II 2 G Ex db eb IIC T6	
Electrical Data		
Rated operational voltage AC	230 V	
Rated operational current	16 A (T6)	
Output		
Output max. load AC	L-2 16 (2.5) A cos φ 1 (0.6) L-4 2 (0.4) A cos φ 1 (0.6)	
Ambient Conditions		
Ambient temperature	-50 °C +50 °C	
Mechanical Data		
Degree of protection (IP)	IP66 / IP67	
Enclosure material	1.4404 stainless steel, Electropolished	
Components		
Cable glands	1 x M25 Ø 13 – 17 mm	



Technical Data	
Components	
Stopping plug	8 x M25 x 1.5
Type of terminals 1	3 x Supply 2-conductor, 10 mm², grey
Type of terminals 2	5 x Output terminal 2-conductor, 2.5 mm ² , grey
Type of terminals PE 1	4 x Phoenix USLKG 2-conductor, 10 mm², green-yellow

Accessories				
Figure	Description	Art. No.	PS	Weight kg
Cable gland Ex e				
	E204/622 M25/D1/9 mm (Ø 15 – 20.1 mm), with lock nut	259237	70	-
	E204/622 M25/D9/9 mm (Ø 13 – 17 mm), with lock nut	259253	70	-
Connection kit, wall m	iounting			
	5x11 / 5x15, M28x1 COLD for all Raychem cables	264288	70	-
	5x11 / 5x15, M28x1 HOT for all Raychem cables	264289	70	-
Termination kit, wall r	nounting			
	5x15, M28x1, HOT for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264297	70	-
	5x15, M28x1, COLD for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264298	70	-
	5x11, M28x1, HOT for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264293	70	-
	5x11, M28x1, COLD for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264295	70	-

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations









Capillary Tube Thermostat – Pipe Mounted Series TEF1058

Several earthing alternatives

Low lifetime maintenance cost

High operational reliability

High degree of protection IP66/67 is standard, IP67 without breather

Manufactured in acid proof stainless steel (AISI 316L)

Stainless steel type label spot welded to the cover

Maximum strength and corrosion resistance

Recommended for up to 4 heating cables





WebCode T1058I



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Tranberg's thermostats are represented in most of the oil installations in the North Sea, petrochemical industry and other industries subjected to rough environments.

Tranberg has designed and manufactured heat tracing equipment and heating applications for rough environments for more than 25 years.

Our product range includes a number of different heat tracing junction boxes.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Product Description	Temperature controller for pipe mou	Inting		
Measuring range	Contacts	Product Type	Art. No. F	PS
-20 50 °C	1 change-over contact	TEF10582560	259549	70
0 120 °C	1 change-over contact	TEF10582561	259550 🔺 🗍	70
0 200 °C	1 change-over contact	TEF10582562	259551 🔺 💈	70
50 300 °C	1 change-over contact	TEF10582563	259552	70

Technical Data		
Explosion Protection		
IECEx gas explosion protection	Ex db eb IIC T6	
ATEX gas explosion protection	II 2 G Ex db eb IIC T6	
Electrical Data		
Rated operational voltage AC	230 V	
Rated operational current	16 A (T6)	
Output		
Output max. load AC	L-4 2 (0.4) A cos φ 1 (0.6) L-2 16 (2.5) A cos φ 1 (0.6)	
Ambient Conditions		
Ambient temperature	-50 °C +50 °C	
Mechanical Data		
Degree of protection (IP)	IP66 / IP67	
Enclosure material	1.4404 stainless steel, Electropolished	
Components		
Cable glands	1 x M25 Ø 13 – 17 mm	

TRANBERG SOLUTIONS



Technical Data	
Components	
Stopping plug	6 x M25 x 1.5
Type of terminals 1	3 x Supply 2-conductor, 10 mm², grey
Type of terminals 2	5 x Output terminal 2-conductor, 2.5 mm ² , grey
Type of terminals PE 1	4 x Phoenix USLKG 2-conductor, 10 mm², green-yellow

Accessories				·
Figure	Description	Art. No.	PS	Weight kg
Cable gland Ex e				
	E204/622 M25/D1/9 mm (Ø 15 – 20.1 mm), with lock nut	259237	70	-
	E204/622 M25/D9/9 mm (Ø 13 – 17 mm), with lock nut	259253	70	-
Connection kit, pipe	mounting			
	5x11 / 5x15, M28x1 COLD for all Raychem cables	264286	70	-
	5x11 / 5x15, M28x1 HOT for all Raychem cables	264287	70	-
Termination kit, pip	e mounting			
	5x15, M28x1, COLD for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264296	70	-
	5x15, M28x1, HOT for Raychem cables 8BTV-10BTV-20QTV-XTV-KTV	264299	70	-
	5x11, M28x1, HOT for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264292	70	-
	5x11, M28x1, COLD for Raychem cables 3BTV-5BTV-10QTV-15QTV-XTV-KTV-VPL	264294	70	-

175 [6,89]

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations













Integrated terminal box, no need for extra connection box

(such as aluminium) to prevent corrosion

installing the lantern on 1" or 2" pipes

Access to bulb from top - enabling quick replacement of light source

Supplied with isolators to be used between the lantern and hull/mast

Extremely durable to mechanical deterioration; resistant to vibrations Small dimensions; designed for use in arctic and tropical waters

Lens of through-coloured glass - no decolouration throughout the

The lens can easily be cleaned for paint, bird droppings, pollution

lifetime of the lantern; 20 years warranty on lantern

Durable bracket in stainless steel (SS316L) can be used when





WebCode T2870A



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and oil

Extensively tested in rough environments, navigation lights from Tranberg are the obvious choice by many vessel designers, ship owners and yards throughout the world. Our products and services meet the highest quality standards, perform reliably and efficiently to exceed customers' expectations and assure market competitiveness.

The design of Tranberg's navigation lights is based on many years of experience and research in the field of professional Marine lighting. Carefully selected materials are used to ensure maximum performance, low maintenance and long trouble free life.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in			•			

Selection Table Power 40.00 W Lamp type Opening angle Colour of glass Product Type Art. No. PS 1/2 allround light 181 ° White TEF28705119 242131 🔺 70 TEF28706119 242141 🔺 70 Green Red TEF28707119 242147 🔺 70 Allround light 360 ° White TEF28705109 242130 🔺 70 TEF28706109 242140 70 Green 242146 70 Red TFF28707109 White TEF28700019 70 Masthead 225 ° 242123 🔺 Port 112.5 ° TEF28702019 242125 🔺 70 Red Starboard 112.5 ° Green TEF28701019 242124 🔺 70 Stern 135° White TEF28703019 242126 🔺 70 Stern cleats 135° TEF28703319 70 Yellow 242128 🔺 242127 🔺 70 Suez stern light 135° Red TEF28703219

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex nR IIC T5 Gc
ATEX gas explosion protection	II 3 G Ex nR IIC T5 Gc

E6



Technical Data	
Electrical Data	
Rated operational voltage AC	24 V
Ambient Conditions	
Ambient temperature	-52 °C +50 °C
Lighting Data	
Lamp	P28S lamp base
Mechanical Data	
Enclosure material	Brass
Material dome	Lens made of stained glass
Type of connection cable	Finely stranded Solid
Degree of protection (IP)	IP56
Components	
Drilled holes	1 x M20
Cable glands	1 x M20 Ø 6.5 – 14 mm

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



E6

126 [4,96]

67 [2,64]

143 [5,63]









Integrated terminal box with

drain plug/breather

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- Low maintenance
 Rugged construction
- Rugged constructionEncapsulated electronics. No risk
- of water intrusion to LED's and electronics
- Instant light
- Resistant to vibrations

WebCode T2460B



Tranberg luminaires are all designed for use in rough environments. It is the policy of Tranberg to provide products and services that meet the highest standards of quality in the industry and the performance needs and expectations of our customers. The design of Tranberg luminaries is based on many years of experience and extensive research in the field of professional Marine lighting. Carefully selected materials are used to ensure maximum performance, low maintenance and a long trouble free life.

Applications:

- Perimeter lights on helideck. Green (100-254 V AC/ 24V DC) or red/green light (24V DC only)
- Zone 1, Zone 2 and safe area

	ATE	X / IE	CEx			
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Rated operational voltage AC	100 – 254 V			
Lamp		Product Type	Art. No.	PS
Green LED		TEF2460150	241034	70
Rated operational voltage DC	24 V			
Lamp		Product Type	Art. No.	PS
Green / red LED		TEF2460153	241036	70
Green LED		TEF2460152	241035	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e mb op is IIC T5 Gb
ATEX gas explosion protection	⊚ II 2 G Ex e mb op is IIC T5 Gb
Electrical Data	
Power	4 W
Ambient Conditions	
Ambient temperature	-55 °C +55 °C
Lighting Data	
Effective luminous intensity	30 cd



Technical Data	
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	Brass, Hot-forged
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²
Type of connection cable	Finely stranded Solid
Components	
Drilled holes	2 x M25
Cable glands	Can be ordered as accessories
Stopping plug	Can be ordered as accessories

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations









Complies with: ICAO Annex 14 Vol. 1 Ch. 6, Low intensity

Encapsulated electronics. No risk of water intrusion to LED's and

Integrated terminal box with drain plug/breather

• RED+IR Versions are Night Vision Goggle compatible.





WebCode T2460A



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type A or B

electronics

Instant light

Maintenance free

Rugged construction

Resistant to vibrations

Tranberg luminaires are all designed for use in rough environments. It is the policy of Tranberg to provide products and services that meet the highest standards of quality in the industry and the performance needs and expectations of our customers. The design of Tranberg luminaries is based on many years of experience and extensive research in the field of professional Marine lighting. Carefully selected materials are used to ensure maximum performance, low maintenance and a long trouble free life.

Applications:

- Obstruction light
- General marking / warning light
- Zone 1, Zone 2 and safe area

	ATE	EX / IE	ECEx			
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table				
Rated operational voltage AC	100 – 254 V			
Effective luminous intensity	Lamp	Product Type	Art. No.	PS
10 cd	Red LED	TEF2460165	240989 🔺	70
32 cd	Red LED	TEF2460160	241027 🔺	70
Rated operational voltage DC	24 V			
Effective luminous intensity	Lamp	Product Type	Art. No.	PS
10 cd	Red LED	TEF2460166	240990 🔺	70
	Red LED + IR	TEF2460168	241032 🔺	70
32 cd	Red LED	TEF2460162	240988 🔺	70
	Red LED + IR	TEF2460167	241031 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e mb op is IIC T5 Gb
ATEX gas explosion protection	II 2 G Ex e mb op is IIC T5 Gb
Electrical Data	
Power	10 W



Obstruction Light LED Series TEF2460

Technical Data	
Ambient Conditions	
Ambient temperature	-55 °C +55 °C
Mechanical Data	
Enclosure material	Brass, Hot-forged
Connection terminals solid max.	4 mm ²
Connection terminals finely-stranded max.	2.5 mm ²
Type of connection cable	Finely stranded Solid
Components	
Drilled holes	2 x M25
Cable glands	Can be ordered as accessories
Stopping plug	Can be ordered as accessories
Notes	Delivered with one cable gland and one stopping plug.

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations











- Status light as described in CAA UK CAP437, NORMAM-27/DPC and 2009 MODU Code
- Height of light units <25 cm. Allows for on-deck installation
- Automatic monitoring of all light units when in combination with Tranberg control system. No need for redundancy units
- Maintenance free
- Night vision goggle (NVG) compatible
- · Low power consumption: Main light, 30 W and Repeater light 2.6 W

WebCode T9980A



The TEF9980 Status lights are designed to fulfil the latest requirements of CAA UK CAP 437, as well as operator's needs for products that are cost-effective, reliable, require no maintenance and are applicable for use in all environments.

The TEF 9980 Status light is available as a main light and as a repeater light. Both versions are fully monitored, which eliminates the light units' redundancy need. In combination with Tranberg control system the lights can be set up for automatic test intervals, timeouts for both dim level diagnostics.

A status light system should be installed if a condition can exist on an installation which may be hazardous for the helicopter or its occupants. The system should be a flashing red light (or lights), visible to the pilot from any direction of approach and on any landing heading. The aeronautical meaning of a flashing red light is either "do not land, aerodrome not available for landing" or "move clear of landing area". The system should be automatically initiated at the appropriate hazard level (e.g. impending gas release)

	ATE	EX / IE	ECEx			
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Power		30.00 W				
Product Description	Width	Height	Length	Product Type	Art. No.	PS
Main light for helicopter dec	k 263 mm	245 mm	200 mm	TEF9980000	262975 🔺	70
Repeater light for helicopter deck	263 mm	245 mm	200 mm	TEF9980005	262976 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db op is IIB+H2 T5 Gb
ATEX gas explosion protection	🐼 II 2 G Ex db op is IIB+H2 T5 Gb
Electrical Data	
Rated operational voltage DC	16 – 32 V
Ambient Conditions	
Ambient temperature	-40 °C +55 °C
Lighting Data	
Lamp	Red LED + IR
Mechanical Data	
Degree of protection (IP)	IP66



Technical Data	
Mechanical Data	
Degree of protection IP (IEC 60529)	IP67
Enclosure material	Aluminium, powder-coated, Seawater-resistant
Material mounting parts	Stainless steel
Material dome	Glass Temperature-resistant
Conductor length	3 m
Type of connection cable	BFOU 0.6/1.2kV P5/P12
Mounting / Installation	
Connection type	Connection line

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





Helideck Floodlight LED Series TEF9970





Floodlight for helideck landing areas

- For use in hazardous areas
- Floodlighting
 - Rugged and low profile floodlight made from marine proofed aluminium
- Sealed for life
- · Simple to install and maintain
- · Light module is maintenance free
- Proven degree of protection
- Resistant to vibrations
- Complies with: ICAO Annex 14 Vol. II; NORSOK C-004 201

WebCode T9970A



Luminaires designed and manufactured by Tranberg are intended for use in rough environments, and to meet applicable international standards. The new LED floodlight TEF 9970 by Tranberg sets a new standard in the industry as it has a wider operating temperature range, along with several new features.

The LED light source provides a hugely longer lifetime expectancy than xenon light bulbs, while the special designed optics ensure an ideal coverage of the helideck surface without giving glare to pilots in the critical landing process. As an option, a dimming functionality may be installed, which reduces light output to 50% when and if required.

The operating voltage span is wide, and absorbs voltage variances and spikes without resulting in flickering or changes in light output. The innovative design is also great news for service and maintenance personnel, as it is a sealed unit which requires noinspection of traditional flame paths. Helideck equipment manufactured by Tranberg is delivered to offshore installations, oil tankers and supply ships, hotels and hospitals landing areas all over the world.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table			
Product Description	Helideck LED floodlight		
Light distribution	Product Type	Art. No.	PS
Medium-beam	TEF9970200	262996	70
Narrow-beam	TEF9970300	262997	70
Wide beam	TEF9970100	251936	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex db eb op is IIB+H2 T5/T4 Gb
ATEX gas explosion protection	
Electrical Data	
Rated operational voltage AC	100 – 277 V
Rated operational voltage DC	145 – 380 V
Rated operational current	0.7 A (T5)
Frequency range	50 – 60 Hz



Helideck Floodlight LED Series TEF9970

Technical Data	
Ambient Conditions	
Ambient temperature	-55 °C +40 °C (IIB+H2 T5) -55 °C +55 °C (IIB+H2 T4)
Operating temperature	-40 °C +55 °C
Lighting Data	
Lamp wattage	45 W
Lamp	LED
Luminaire efficacy	68 Im/W
Luminous flux	3100 lm
Colour temperature	4000 K
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66
Enclosure material	Salt water-resistant, Powder-coated
Lens material	Borosilicate glass
Mounting	With bracket
Mounting / Installation	
Mounting type	1.4404 stainless steel holder
Components	
Drilled holes	2 x M25
Screw connections	2 x M25 Ø 11 – 21.1 mm
Material cable gland	Stainless steel
Stopping plug	Can be ordered as accessories

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations







Mounting details



E6



Integrated Helideck Light Control





All control gear in one cabinet, simplifying connections, control and

Smaller footprint than individual control cabinets for each type of

Connection with a supervisory control system through Ethernet,

Optional remote button and lamp control panel, allowing additional

Optional touchscreen, allowing local control (Zone 1 panel or

With an absolute minimum of required inspections and low



WebCode T4600A



monitoring

maintenance

Non-Ex)

control of lights

Profibus or similar standards

liaht

The TEF 4600 integrated Helideck Lights Control is a first integrated control system for an easy and safe control and monitoring of all lights installed in a helideck. The control system can be delivered for use in both safe areas and Zone 1 areas.

All types of Tranberg lights can be connected (perimeter lights, floodlights, obstruction lights, illuminated windsocks, Circle & H lights, status lights, etc.).

Central to the system is a touch panel. Using an intuitive user-friendly menu, the user can simply set the lights on or off or dim respective lights when needed. The touch panel can be mounted either in the door of the main panel (safe areas only), in the adjacent room or elsewhere.

R. STAHL's Exicom MT-498 operator panel can be used for Zones 1 and 2. All touch panels come fully loaded with software and configuration options. Regardless of the control panel type, additional remote control panels may be connected. These are push-button panels with integrated illumination, allowing local control of lights, and in full synchronization with the computer screens.

Applications:

Deck light control panel; floodlight control panel; helideck control panel; heating system control panel; pump control panel; status panel; general control panel

	ATEX / IECEx							
Zone	0	1	2	20	21	22		
Installation in		•						





Technical Data	
Explosion Protection	
Application range (zones)	1
Application range (Zone) note	Non-Ex versions available
Notes	Control system and all operator panels are available in both Zone 1 and Non-Ex versions. According to CAA CAP437
Electrical Data	
Power supply	Single 230 V AC power supply, UPS supply and monitoring available
Connections	Ethernet connection to operator panels. Optional hardwired connection to local control panels.
Mechanical Data	
Degree of protection (IP)	IP66 / IP67
Dimensions (WxHxD)	Non-Ex control cabinet: 600 mm x 1800 mm x 300 mm Zone 1 cabinet: Flexible size and shape
Notes	Weight: 1.3 to 2.0 kg (depending on model and configuration)

-					Perimeter lights circuit #1
	c				Perimeter lights circuit #2
	c			-0	Floodlights circuit #1
	c				Floodlights circuit #2
	c				Circuit and H lights
	c				Taxi lights
	c			0	Obstructions lights
	c				Windsock lights
	c				Status lights, main light
	c				Status lights, main light
JUL TI					
	То	uch-screen	based o	pera	tors panels
	Lo	cal control	panels		
	Ma	in power s	upply		
	UP	'S supervis	ion input		
	Co	egration to ntrol and D 1S (Helideo	ata Aqui	sition) systems,







- · Light weight composite structure
- Compact
- Easy to install
- Can be supplied with DIN rail module
- · Self regulating heating element. Prevents overheating.
- Low maintenance
- · Corrosion proof
- · Fire resistant, flame retardant UL94, Classification V-0
- · Low inrush current

WebCode T9202A



Globally approved Ex e, self regulating enclosure heater. Made of light weight composite material.

	ATEX / IECEx						
Zone	0	1	2	20	21	22	
Installation in		•	•				

Selection Table Product Description Enclosure heater with connection line Rated operational voltage AC Power Product Type Art. No. PS 120 V 50 W TEF9202050 70 262778 🔺 100 W TEF9202051 262779 🔺 70 230 V 50 W TEF9202010 262777 🔺 70 100 W TEF9202011 259713 4 70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T4 Gb
ATEX gas explosion protection	ll 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	For use in enclosures
Enclosure material	Composite material
Type of connection cable	2 x 2.5 + PE
Cable length	1.5 m

Accessories				
Figure	Description	Art. No.	PS	Weight kg
	DIN rail module	263934	99	-

E6



Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations





Optional DIN rail module, placed in vertical position





Optional DIN rail module, placed in horizontal position

Nominal output "	Overall dimensions			Mounting dimensio	ns	Weight
	Α	В	C	D	E	
50 W	180	300	30	140	201	0,56 kg
100 W	180	300	30	140	201	0,76 kg
	•					

E6

⁹ Note: Nominal output at still air at 0 °C







· Low profile, easy to fit inside cabinets

- · Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode T9207A



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure. With connection line for electrical connection. Delivered with power output from 100 W up to 500 W at 0 °C.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description	Enclosure heate	er with connection line			
Power	Type of connection cable	Cable length	Product Type	Art. No.	PS
100 W	2 x 2.5 + PE	1 m	TEF92070001	242179	70
200 W	2 x 2.5 + PE	1.5 m	TEF92070002	242180	70
300 W	2 x 2.5 + PE	1.5 m	TEF92070003	242181	70
500 W	2 x 2.5 + PE	1.5 m	TEF92070005	242182	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T3 Gb
ATEX gas explosion protection	ll 2 G Ex e IIC T3 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel



Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



Nominal output $^{\gamma}$	Overall dim	Overall dimensions		Mounting dimensions		Weight	Length connection line
	А	В	С	D	Е		
100 W	200	300	30	190	160	1.62 kg	1 m
200 W	240	550	30	440	200	3.44 kg	1.5 m
300 W	280	700	30	590	240	5.42 kg	1.5 m
500 W	360	870	30	760	320	8.02 kg	1.5 m

⁹ Note: Nominal output at still air at 0 °C



Self-regulating heating element. Prevents overheating

For use inside equipment enclosures and cabinets to prevent

Low profile, easy to fit inside cabinets

Rugged AISI 316L, acid steel construction

condensation and provide climatic control





WebCode T9207B



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with power output from 100 W up to 600 W at 0 °C.

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Low maintenance

Frost protection

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table			
Product Description	Enclosure heater with junction box		
Power	Product Type	Art. No.	PS
100 W	TEF92071001	220182	70
200 W	TEF92071002	220183 🔺	70
300 W	TEF92071003	220184 🔺	70
500 W	TEF92071005	220186 🔺	70
Product Description Version	Enclosure heater with junction box Sandwich design		
Power	Product Type	Art. No.	PS
400 W	TEF92073004	220185	70
600 W	TEF92073006	220187	70
1000 W	TEF92073010	220188 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T3 Gb
ATEX gas explosion protection	🚯 II 2 G Ex e IIC T3 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm²


Series TEF9207 with Junction Box 240 V AC, T3

Technical Data	
Mechanical Data	
Connection cross-section finely stranded max.	2.5 mm ²
Components	
Cable glands	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5





⁹ internal cables from heater plate (installed at TRANBERG Factory)

Nominal output ¹	Overall dimension	s		Mounting dimension	Weight		
	А	В	С	D	E	F	
100 W	200	430	30	80	190	160	2.92 kg
200 W	240	684	30	80	440	200	4.74 kg
300 W	280	834	30	80	590	240	6.72 kg
400 W	303	684	80	80	440	276	6.44 kg
500 W	360	1004	30	80	760	320	9.32 kg
600 W	343	834	80	80	590	316	11.76 kg
1000 W	424	1004	80	80	760	397	18.50 kg

⁹ Note: Nominal output at still air at 0 °C



Low profile, easy to fit inside cabinets

Rugged AISI 316L, acid steel construction

condensation and provide climatic control

· Self-regulating heating element. Prevents overheating

Ambient air thermostat, integrated in heater junction box

For use inside equipment enclosures and cabinets to prevent





WebCode T9207C



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with ambient air thermostat, +5 °C or +15 °C and power output from 100 W up to 600 W at 0 °C ambient, still air.

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Low maintenance

Frost protection

	ATEX / IECEx						
Zone	0	1	2	20	21	22	
Installation in		•	•				

Selection Table					
Product Description	Enclosure heate	er with junction box and temperature control of	levice		
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	P
100 W	+5 °C	+/- 5°C	TEF92072401	220175	7
	+15 °C	+/- 5°C	TEF92072601	242183 🔺	7
200 W	+5 °C	+/- 5°C	TEF92072402	220176	7
	+15 °C	+/- 5°C	TEF92072602	242184 🔺	7
300 W	+5 °C	+/- 5°C	TEF92072403	220177 🔺	7
	+15 °C	+/- 5°C	TEF92072603	242185 🔺	7
500 W	+5 °C	+/- 5°C	TEF92072405	220179	7
	+15 °C	+/- 5°C	TEF92072605	242186 🔺	7
Product Description Version	Enclosure heate Sandwich desig	er with junction box and temperature control c n	levice		
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	Ρ
400 W	+5 °C	+/- 5°C	TEF92074404	220178 🔺	7
	+15 °C	+/- 5°C	TEF92074604	242187 🔺	7
600 W	+5 °C	+/- 5°C	TEF92074406	220180	7
	+15 °C	+/- 5°C	TEF92074606	242188 🔺	7
1000 W	+5 °C	+/- 5°C	TEF92074410	220181 🔺	7
	+15 °C	+/- 5°C	TEF92074610	242189 🔺	7

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T3 Gb
ATEX gas explosion protection	II 2 G Ex e IIC T3 Gb



Series TEF9207 with Junction Box and Thermostat 240 V AC, T3

Technical Data	
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²
Components	
Cable glands	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





Stopping plug M25 Power in M25

2 3 4

5 6

7

- Breather M25
- Stopping plug M25
 2x cold lead only (for sandwich design)
 Cold lead
- Earth bolt
- 8 ¹ internal cables from heater plate (installed at
- TRANBERG Factory)

Nominal output ⁹	Overall dimen	Overall dimensions				Mounting dimensions		
	А	В	С	D	E	F		
100 W	233	430	30	80	190	160	2.92 kg	
200 W	245	684	30	80	440	200	4.74 kg	
300 W	280	834	30	80	590	240	6.72 kg	
400 W	303	684	80	80	440	276	6.44 kg	
500 W	360	1004	30	80	760	320	9.32 kg	
600 W	343	834	80	80	590	316	11.76 kg	
1000 W	424	1004	80	80	760	397	18.50 kg	

⁹ Note: Nominal output at still air at 0 °C

upwards.







· Low profile, easy to fit inside cabinets

- · Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode T9208A



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure. With connection line for electrical connection. Delivered with power output from 50 W up to 300 W at 0 °C.

	ATEX / IECEx						
Zone	0	1	2	20	21	22	
Installation in		•	•				

Selection Table									
Product Description	scription Enclosure heater with connection line								
Power	Type of connection cable	Cable length	Product Type	Art. No.	PS				
50 W	2 x 2.5 + PE	1 m	TEF92080000	259557 🔺	70				
100 W	2 x 2.5 + PE	1.5 m	TEF92080001	246710 🔺	70				
175 W	2 x 2.5 + PE	1.5 m	TEF92080002	246851 🔺	70				
300 W	2 x 2.5 + PE	1.5 m	TEF92080003	246852 🔺	70				

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T4 Gb
ATEX gas explosion protection	😡 II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP54
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel



Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



Nominal output "	Overall dim	Overall dimensions		Mounting d	Mounting dimensions		Length connection line
	Α	В	С	D	Е		
50 W	200	300	30	190	160	2 kg	1 m
100 W	240	550	30	440	200	3 kg	1 m
175 W	280	700	30	590	240	5 kg	1.5 m
300 W	360	870	30	760	320	8 kg	1.5 m

⁹ Note: Nominal output at still air at 0 °C



Self-regulating heating element. Prevents overheating

For use inside equipment enclosures and cabinets to prevent

Low profile, easy to fit inside cabinets

Rugged AISI 316L, acid steel construction

condensation and provide climatic control





WebCode T9208B



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with power output from 100 W up to 600 W at 0 °C.

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Low maintenance

Frost protection

	ATEX / IECEx						
Zone	0	1	2	20	21	22	
Installation in		•	•				

Selection Table			
Product Description	Enclosure heater with junction box		
Power	Product Type	Art. No.	PS
100 W	TEF92081001	259561 🔺	70
175 W	TEF92081002	259562 🔺	70
300 W	TEF92081003	259563 🔺	70
Product Description Version	Enclosure heater with junction box Sandwich design		
Power	Product Type	Art. No.	PS
600 W	TEF92083006	259570 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T4 Gb
ATEX gas explosion protection	🚯 II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP54
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²

E6



Series TEF9208 with Junction Box 240 V AC, T4

Technical Data			
Components			
Cable glands	1 x M25 x 1.5		
Stopping plug	3 x M25 x 1.5		

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



upwards.



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Cold lead
 Parth bolt M6 x 10
 internal cables from heater plate (installed at
 TRANBERG Factory)

Nominal output "	Overall dimensions				Mounting dimension	Weight	
	Α	В	С	D	E	F	
100 W	240	684	30	80	440	200	4.92 kg
175 W	280	834	30	80	590	240	6.74 kg
300 W	360	1004	30	80	760	320	9.72 kg
600 W	424	1004	80	80	760	397	18.76 kg

 $^{\scriptscriptstyle 9}$ Note: Nominal output at still air at 0 °C



Low profile, easy to fit inside cabinets

Rugged AISI 316L, acid steel construction

condensation and provide climatic control

Self-regulating heating element. Prevents overheating

Ambient air thermostat, integrated in heater junction box

For use inside equipment enclosures and cabinets to prevent





WebCode T9208C



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with ambient air thermostat, +5 °C or +15 °C and power output from 100 W up to 600 W at 0 °C ambient, still air.

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Low maintenance

Frost protection

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description	Enclosure heate	r with junction box and temperature control of	levice		
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
100 W	+5 °C	+/- 5°C	TEF92082401	259564 🔺	70
	+15 °C	+/- 5°C	TEF92082601	259567 🔺	70
175 W	+5 °C	+/- 5°C	TEF92082402	259565 🔺	70
	+15 °C	+/- 5°C	TEF92082602	259568 🔺	70
300 W	+5 °C	+/- 5°C	TEF92082403	259566 🔺	70
	+15 °C	+/- 5°C	TEF92082603	259569 🔺	70
Product Description Version	Enclosure heate Sandwich desigr	r with junction box and temperature control c	levice		
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
600 W	+5 °C	+/- 5°C	TEF92084406	259571 🔺	70
	+15 °C	+/- 5°C	TEF92084606	259572 🔺	70

Technical Data		
Explosion Protection		
IECEx gas explosion protection	Ex e IIC T4 Gb	
ATEX gas explosion protection	ᡚ II 2 G Ex e IIC T4 Gb	
Electrical Data		
Frequency range	50 – 60 Hz	
Ambient Conditions		
Ambient temperature	-50 °C +50 °C (Under voltage)	
Storage temperature	-50 °C +80 °C	
Mechanical Data		
Degree of protection (IP)	IP54	



Enclosure Heater

Series TEF9208 with Junction Box and Thermostat 240 V AC, T4

Technical Data	
Mechanical Data	
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²
Components	
Cable glands	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations





Note! Never install the heater with junction box facing upwards.

1	Ambient air thermostat
2	Stopping plug M25
3	Power in M25
4	Breather M25
5	Stopping plug M25
6	¹ 2x cold lead only (for sandwich design)
7	") Cold lead
8	Earth bolt
¹⁾ internal	cables from heater plate (installed at
TRANBER	RG Factory)

Nominal output "	Overall dimensions	Overall dimensions				Mounting dimensions		
	Α	В	C	D	E	F		
100 W	245	684	30	80	440	200	4.92 kg	
175 W	280	834	30	80	590	240	6.74 kg	
300 W	360	1004	30	80	760	320	9.72 kg	
600 W	424	1004	80	80	760	397	18.76 kg	

 9 Note: Nominal output at still air at 0 °C







· Low profile, easy to fit inside cabinets

- · Self-regulating heating element. Prevents overheating
- Rugged AISI 316L, acid steel construction
- Low maintenance
- For use inside equipment enclosures and cabinets to prevent condensation and provide climatic control
- Frost protection

WebCode T9209A



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure. With connection line for electrical connection. Delivered with power output from 50 W up to 300 W at 0 °C.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description	Enclosure heate	er with connection line			
Power	Type of connection cable	Cable length	Product Type	Art. No.	PS
50 W	2 x 2.5 + PE	1 m	TEF92095000	262980 🔺	70
100 W	2 x 2.5 + PE	1.5 m	TEF92095001	262981 🔺	70
175 W	2 x 2.5 + PE	1.5 m	TEF92095002	262982 🔺	70
300 W	2 x 2.5 + PE	1.5 m	TEF92095003	262983 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T4 Gb
ATEX gas explosion protection	ᡚ II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel



Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



Nominal output "	Overall dim	Overall dimensions		Mounting	Mounting dimensions		Length connection line
	Α	В	С	D	Е		
50 W	200	300	30	190	160	2 kg	1 m
100 W	240	550	30	440	200	3 kg	1 m
175 W	280	700	30	590	240	5 kg	1.5 m
300 W	360	870	30	760	320	8 kg	1.5 m

⁹ Note: Nominal output at still air at 0 °C



Self-regulating heating element. Prevents overheating

For use inside equipment enclosures and cabinets to prevent

Low profile, easy to fit inside cabinets

Rugged AISI 316L, acid steel construction

condensation and provide climatic control





WebCode T9209B

(Ex

Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with power output from 100 W up to 600 W at 0 °C.

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Low maintenance

Frost protection

	ATE	EX / IE	ECEx			
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table			
Product Description	Enclosure heater with junction box		
Power	Product Type	Art. No.	PS
100 W	TEF92096001	262984 🔺	70
175 W	TEF92096002	262985 🔺	70
300 W	TEF92096003	262986 🔺	70
Product Description Version	Enclosure heater with junction box Sandwich design		
Power	Product Type	Art. No.	PS
600 W	TEF92098006	262987 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T4 Gb
ATEX gas explosion protection	🚯 II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP66
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²

E6



Series TEF9209 with Junction Box 120 V AC, T4

Components Cable glands 1 x M25 x 1.5	Technical Data		
Cable glands 1 x M25 x 1.5	Components		
	Cable glands	1 x M25 x 1.5	
Stopping plug 3 x M25 x 1.5	Stopping plug	3 x M25 x 1.5	

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations





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- Cold lead
 Parth bolt M6 x 10
 internal cables from heater plate (installed at
 TRANBERG Factory)

Note! Never install the heater with junction box facing upwards.

Nominal output ⁵	Overall dimensions			Mounting dimension	Weight		
	Α	В	С	D	Е	F	
100 W	240	684	30	80	440	200	4.92 kg
175 W	280	834	30	80	590	240	6.74 kg
300 W	360	1004	30	80	760	320	9.72 kg
600 W	424	1004	80	80	760	397	18.76 kg

 $^{\scriptscriptstyle 9}$ Note: Nominal output at still air at 0 °C



Low profile, easy to fit inside cabinets

Rugged AISI 316L, acid steel construction

condensation and provide climatic control

Self-regulating heating element. Prevents overheating

Ambient air thermostat, integrated in heater junction box

For use inside equipment enclosures and cabinets to prevent





WebCode T9209C



Globally approved Ex e, self regulating enclosure heater. AISI 316L acid resistant steel enclosure and junction box. Junction box for electrical connections. Delivered with ambient air thermostat, +5 °C or +15 °C and power output from 100 W up to 600 W at 0 °C ambient, still air.

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Low maintenance

Frost protection

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table					
Product Description	Enclosure heate	r with junction box and temperature control of	device		
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
100 W	+5 °C	+/- 5°C	TEF92097401	262988 🔺	70
	+15 °C	+/- 5°C	TEF92097601	262992 🔺	70
175 W	+5 °C	+/- 5°C	TEF92097402	262989 🔺	70
	+15 °C	+/- 5°C	TEF92097602	262993 🔺	70
300 W	+5 °C	+/- 5°C	TEF92097403	262990 🔺	70
	+15 °C	+/- 5°C	TEF92097603	262994 🔺	70
Product Description Version	Enclosure heate Sandwich design	r with junction box and temperature control c n	device		
Power	Opening temperature OFF	Opening temperature tolerance	Product Type	Art. No.	PS
600 W	+5 °C	+/- 5°C	TEF92099406	262991 🔺	70
	+15 °C	+/- 5°C	TEF92099606	262995 🔺	70

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex e IIC T4 Gb
ATEX gas explosion protection	II 2 G Ex e IIC T4 Gb
Electrical Data	
Frequency range	50 – 60 Hz
Ambient Conditions	
Ambient temperature	-50 °C +50 °C (Under voltage)
Storage temperature	-50 °C +80 °C
Mechanical Data	
Degree of protection (IP)	IP66



Enclosure Heater

Series TEF9209 with Junction Box and Thermostat 120 V AC, T4

Technical Data	
Mechanical Data	
Degree of protection note	For use in enclosures
Enclosure material	1.4404 stainless steel
Connection cross-section solid max.	4 mm ²
Connection cross-section finely stranded max.	2.5 mm ²
Components	
Cable glands	1 x M25 x 1.5
Stopping plug	3 x M25 x 1.5

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations





Note! Never install the heater with junction box facing upwards.

1	Ambient air thermostat
2	Stopping plug M25
3	Power in M25
4	Breather M25
5	Stopping plug M25
6	¹⁾ 2x cold lead only (for sandwich design)
7	" Cold lead
8	Earth bolt
¹⁾ internal (cables from heater plate (installed at
TRANBER	RG Factory)

Nominal output $^{\scriptscriptstyle 9}$	Overall dimensions				Mounting d	Mounting dimensions	
	А	В	С	D	E	F	
100 W	245	684	80	80	440	200	4.92 kg
175 W	280	834	80	80	590	240	6.74 kg
300 W	360	1004	80	80	760	320	9.72 kg
600 W	424	1004	80	80	760	397	18.76 kg

 $^{\scriptscriptstyle 9}$ Note: Nominal output at still air at 0 °C





E6