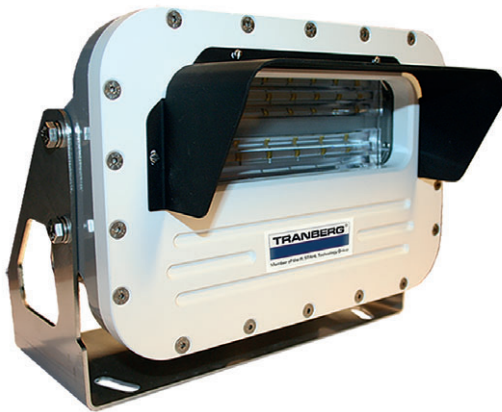


# Helideck Floodlight LED

## Series TEF 9970

TRANBERG®

STAHL



LED

18045E00

- > 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; CAP437;  
NORSOK C-004 2013



E2

www.stahl.de



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 no inspection 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
For use in		x	x			

WebCode T9970A

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## Series TEF 9970



### Selection Table

Version	Description	Order number	Weight kg
Helideck Floodlight LED Series TEF 9970	Wide beam	<b>TEF9970100</b>	
	Medium beam	<b>TEF9970200</b>	
	Spot beam	<b>TEF9970300</b>	

### Explosion Protection

#### Global (IECEX)

Gas	IECEX Pre 14.0060 Ex d e o p is IIB+H2 T5, T4 Gb
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#### Europe (ATEX)

Gas	Presafe 14ATEX5703 ⊕ II 2 G Ex d e o p is IIB+H2 T5, T4 Gb
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#### Certifications and certificates

Certificates	IECEX, ATEX
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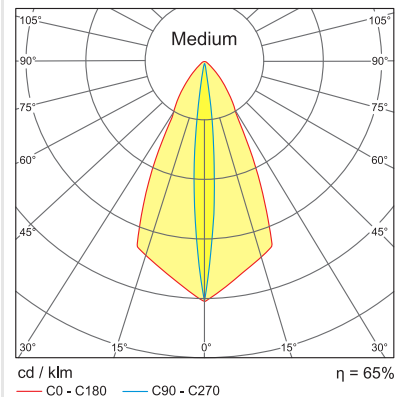
### Technical Data

#### Electrical data

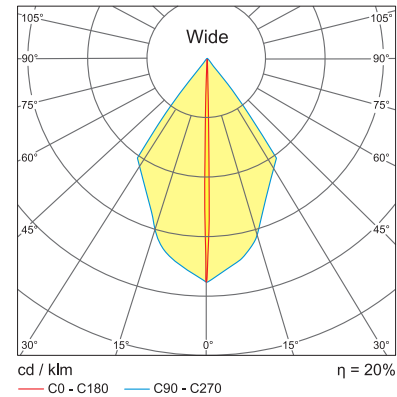
Rated voltage	100 ... 277 V AC 145 ... 380 V DC
Power consumption	approx. 45 W

#### Luminous characteristics

Light source	16 x Luxeon R; 200 lm at 700 mA; 4000 K
Luminous intensity distribution	



17799E00



17872E00

#### Ambient conditions

Ambient temperature	T4: -55 ... +55 °C T5: -55 ... +40 °C
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#### Mechanical data

Degree of protection	IP66 acc. to IEC/EN 60529
Service life	50.000 h
Material	
Enclosure	Marine aluminium, powder coated
Protective glass	Safety glass Borofloat®33
Cable glands	2 x acid proof stainless steel cable glands. (According to customers requirement)

#### Mounting / Installation

Assembly	for mounting holes Ø 12 mm
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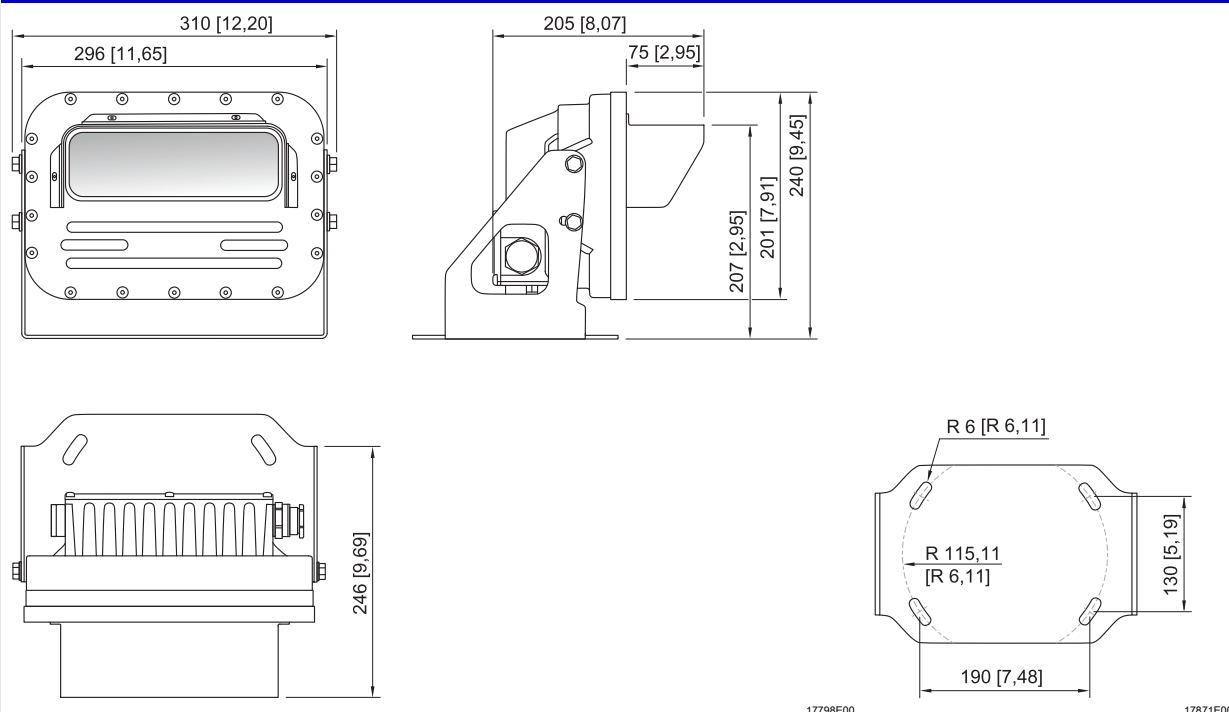
STAHL

### Accessories and Spare Parts

Designation	Description	Order number
Cable glands	Ex e E204/M25/D1 cable diameter 15.0 - 20.1	TEF6222515
	Ex e E204/M25/D2 cable diameter 11.0 - 15.0	TEF6222525
	Ex e E204/M25/C1 cable diameter 9.0 - 14.3	TEF6222535
Anti-glare frame	for floodlight	TEF50500184
Fastening material	screws for anti-glare frame (4 pieces needed)	TEF51010020
Cover	for junction box (incl. gasket and screws)	TEF5603
Connection terminal	unit connecting terminal	TEF5607
Breather	drain plug EEx e M25	TEF7302101

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



Helideck Floodlight LED Series TEF 9970

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.