



TF 400E TT Series with combined tilt & turning units

Turnable heavy-duty mast lighting systems with combined tilt & turning units

Teklite TF 400E TT lighting system with turnable air-operated telescopic mast, keyed mast sections, combined tilt and turning units, internal spiral cable and lamps either 12/24 volt powered by the vehicle battery or 110/230 volt generator powered.

The Teklite TF 400E TT series of mast lighting systems with combined tilt and turning units are especially designed for directional lighting applications where the mast and the angle of elevation of the floodlights can be remotely adjusted. Ideal for fitting to medium size or heavy fire vehicles.



MOBILE, PORTABLE & EMERGENCY LIGHTING

Mast specifications

Technical details



1 Mast top assembly with 4 x PG13,5 cable gland fitted to keyed mast sections

2 Standard natural clear anodised seamless drawn aluminium mast sections with 114 mm base tube

3 360° turnable cardan mast base with air connection, overpressure/drain valve and turning unit

4 Standard pre-mounted and connected warning switch

5 Mast top shroud to protect the keyed mast sections

6 Power supply cable (5 metres) with numbered wires for lamp/beacon/tilt unit connection

TF 400E TT Series mast models (Class II approved)

| Model | Cat. No. | Retracted height | Extended height | Internal cable | Weight of mast |
|--------------------------|----------|------------------|-----------------|------------------------------------|----------------|
| 4 SECTION MASTS * | | | | | |
| TF 432E TT/4 | 34520 | 1230 mm | 3140 mm | 9 x 1.5 + 4 x 0.75 mm ² | 21,0 kg |
| TF 440E TT/4 | 34521 | 1480 mm | 4050 mm | 9 x 1.5 + 4 x 0.75 mm ² | 23,5 kg |
| TF 445E TT/4 | 34522 | 1660 mm | 4700 mm | 9 x 1.5 + 4 x 0.75 mm ² | 25,5 kg |
| TF 453E TT/4 | 34523 | 1830 mm | 5395 mm | 9 x 1.5 + 4 x 0.75 mm ² | 29,0 kg |
| TF 460E TT/4 | 34524 | 2030 mm | 6000 mm | 9 x 1.5 + 4 x 0.75 mm ² | 31,0 kg |
| 5 SECTION MASTS | | | | | |
| TF 432E TT/5 | 34530 | 1025 mm | 3100 mm | 9 x 1.5 + 4 x 0.75 mm ² | 22,0 kg |
| TF 440E TT/5 | 34531 | 1275 mm | 4000 mm | 9 x 1.5 + 4 x 0.75 mm ² | 24,0 kg |
| TF 445E TT/5 | 34532 | 1445 mm | 4600 mm | 9 x 1.5 + 4 x 0.75 mm ² | 26,0 kg |
| TF 453E TT/5 | 34533 | 1670 mm | 5300 mm | 9 x 1.5 + 4 x 0.75 mm ² | 30,0 kg |
| TF 460E TT/5 | 34534 | 1820 mm | 5950 mm | 9 x 1.5 + 4 x 0.75 mm ² | 32,0 kg |
| TF 470E TT/5 | 34535 | 2000 mm | 7000 mm | 9 x 1.5 + 4 x 0.75 mm ² | 33,0 kg |

* All 4 section masts can be equipped with a S-STP/micro coax cable, suitable for video & audio applications.

Mast mounting

These mast fittings are available for mounting the mast inside or outside the body of the vehicle.

External mounting



Upper Mounting Bracket

Cat. No. 14049/SG



Lower Mounting Bracket

Cat. No. 14050/SG

Internal mounting



Roof Bearing

Cat. No. 14048/SG

Lamp choice

* Lamp & tilt unit combination available with beacon & bracket (option). Put a "B" after the tilt unit cat. no. for ordering purposes.

* Lamp & tilt unit combination available with lamp protection guard (option). Put a "P" after the lamp unit cat. no. for ordering purposes.

Double lamp unit, 2 lamps mounted on tilt unit

| Cat. No. | Model | Volt | Amps | Lumens |
|----------|--|------|------|---------|
| 25273/T | 2 x 70 Watt HP Sodium** | 12 | 12,5 | 13.000 |
| 25274/T | 2 x 70 Watt HP Sodium** | 24 | 7,0 | 13.000 |
| 25275/T | 2 x 70 Watt Metal Halide** | 12 | 13,0 | 10.000 |
| 25276/T | 2 x 70 Watt Metal Halide** | 24 | 7,4 | 10.000 |
| 27280/T | 1 x 70 Watt HPS + 1 x 70 Watt MH** | 12 | 12,8 | 11.500 |
| 27285/T | 1 x 70 Watt HPS + 1 x 70 Watt MH** | 24 | 7,2 | 11.500 |
| 27290/T | 2 x 35 Watt Xenarc* | 12 | 5,9 | 7.000 |
| 25268/T | 2 x 35 Watt Xenarc* | 24 | 3,0 | 7.000 |
| 25277/T | 2 x 100 Watt Xenon** | 12 | 16,7 | 7.200 |
| 25278/T | 2 x 150 Watt Xenon** | 24 | 12,5 | 12.000 |
| 27295/T | 2 x 200 Watt Xenon** | 12 | 33,4 | 14.400 |
| 27300/T | 2 x 300 Watt Xenon** | 24 | 25,0 | 24.000 |
| 25279/T | 2 x 500 Watt Halogen** | 230 | 4,4 | 19.000 |
| 27301/T | 2 x 750 Watt Halogen** | 230 | 6,5 | 33.000 |
| 25280/T | 2 x 1000 Watt Halogen** | 230 | 8,7 | 44.000 |
| 25860/T | 2 x 1500 Watt Halogen** | 230 | 13,0 | 72.000 |
| 27305/T | 2 x 150 Watt Metal Halide* + Converter | 12 | 25,0 | 22.500 |
| 27310/T | 2 x 150 Watt Metal Halide* | 24 | 12,5 | 22.500 |
| 25108/T | 2 x 250 Watt HP Sodium* | 24 | 23,0 | 54.000 |
| 27315/T | 2 x 400 Watt HP Sodium** | 230 | 9,0 | 110.000 |
| 27320/T | 2 x 400 Watt Metal Halide** | 230 | 9,0 | 66.000 |
| 27325/T | 1 x 400 Watt HPS + 1 x 400 Watt MH** | 230 | 9,0 | 88.000 |
| 35911/T | 2 x 50 Watt SMD-LED** | 12 | 10,6 | 10.000 |
| 35916/T | 2 x 50 Watt SMD-LED** | 24 | 4,8 | 10.000 |



Quadruple lamp unit, 4 lamps mounted on tilt unit

| Cat. No. | Model | Volt | Amps | Lumens |
|----------|--------------------------------------|------|------|---------|
| 27330/T | 4 x 70 Watt HP Sodium* | 12 | 25,0 | 26.000 |
| 27335/T | 4 x 70 Watt HP Sodium** | 24 | 14,0 | 26.000 |
| 27340/T | 4 x 70 Watt Metal Halide* | 12 | 26,0 | 20.000 |
| 27345/T | 4 x 70 Watt Metal Halide** | 24 | 14,8 | 20.000 |
| 27350/T | 2 x 70 Watt HPS + 2 x 70 Watt MH* | 12 | 25,6 | 23.000 |
| 27355/T | 2 x 70 Watt HPS + 2 x 70 Watt MH** | 24 | 14,4 | 23.000 |
| 27360/T | 4 x 35 Watt Xenarc* + Converter | 12 | 11,7 | 14.000 |
| 25269/T | 4 x 35 Watt Xenarc* | 24 | 5,9 | 14.000 |
| 25515/T | 4 x 100 Watt Xenon** | 12 | 33,4 | 14.400 |
| 25281/T | 4 x 150 Watt Xenon** | 24 | 25,0 | 24.000 |
| 27365/T | 4 x 300 Watt Xenon* | 24 | 50,0 | 48.000 |
| 25282/T | 4 x 500 Watt Halogen** | 230 | 8,7 | 38.000 |
| 27366/T | 4 x 750 Watt Halogen** | 230 | 13,0 | 66.000 |
| 25283/T | 4 x 1000 Watt Halogen** | 230 | 17,4 | 88.000 |
| 25861/T | 4 x 1500 Watt Halogen** | 230 | 26,2 | 144.000 |
| 27370/T | 4 x 150 Watt Metal Halide | 24 | 25,0 | 45.000 |
| 27375/T | 4 x 250 Watt HP Sodium | 24 | 46,0 | 108.000 |
| 27380/T | 4 x 400 Watt HP Sodium** | 230 | 18,0 | 220.000 |
| 27385/T | 4 x 400 Watt Metal Halide** | 230 | 18,0 | 132.000 |
| 27390/T | 2 x 400 Watt HPS + 2 x 400 Watt MH** | 230 | 18,0 | 176.000 |
| 35921/T | 4 x 50 Watt SMD-LED** | 12 | 21,2 | 20.000 |
| 35926/T | 4 x 50 Watt SMD-LED** | 24 | 9,6 | 20.000 |

Hexuple lamp unit, 6 lamps mounted on tilt unit

| Cat. No. | Model | Volt | Amps | Lumens |
|----------|-------------------------|------|------|---------|
| 33425/T | 6 x 35 Watt Xenarc* | 24 | 9,0 | 21.000 |
| 33430/T | 6 x 120 Watt Xenon** | 24 | 30,0 | 21.600 |
| 33435/T | 6 x 500 Watt Halogen** | 230 | 13,0 | 57.000 |
| 33440/T | 6 x 750 Watt Halogen** | 230 | 19,6 | 99.000 |
| 33445/T | 6 x 1000 Watt Halogen** | 230 | 26,0 | 132.000 |
| 35931/T | 6 x 50 Watt SMD-LED** | 12 | 31,8 | 30.000 |
| 35936/T | 6 x 50 Watt SMD-LED** | 24 | 14,4 | 30.000 |

Air supply for mast extension

The air pressure for mast extension may be provided by a battery powered compressor or from the vehicle air pressure system.

Using the vehicle battery power



Compressor Model 40/50

IMPORTANT NOTE :
All our compressors are supplied with a NO (normal open) valve. They need permanent current during operation of the mast lighting system. However, when there are applications where there is no permanent current available (e.g. mast fitted to a standalone container), apply for a compressor with a NC valve.

Models with NO Valve

| | |
|----------------------|----------------|
| Model 40/50, 12 volt | Cat. No. 33640 |
| Model 40/50, 24 volt | Cat. No. 33642 |

Models with NO Valve and Deadman Function

| | |
|----------------------|----------------|
| Model 40/50, 12 volt | Cat. No. 33641 |
| Model 40/50, 24 volt | Cat. No. 33643 |



Remote Control for Model 40/50 Compressor

The complete remote control set is delivered with 5 metre cable and connection plug.

Models

| | |
|---------------|----------------|
| Model 12 volt | Cat. No. 25798 |
| Model 24 volt | Cat. No. 25799 |

Models with Deadman Function

| | |
|---------------|----------------|
| Model 12 volt | Cat. No. 25220 |
| Model 24 volt | Cat. No. 25221 |

Using the vehicle air pressure system



Air Pressure Control Unit

Combined unit consisting of manometer, pressure regulator and control handle.

Models

| | |
|---------------------------------------|----------------|
| AP Control Unit | Cat. No. 25218 |
| AP Control Unit with Deadman Function | Cat. No. 25219 |

Combined Tilt & Turning Units with remote control



Horizontal Tilt Unit Models

| | |
|---------------|----------------|
| Model 12 volt | Cat. No. 27409 |
| Model 24 volt | Cat. No. 27410 |

Tilting angle : 110°



Vertical Tilt Unit Models

| | |
|---------------|----------------|
| Model 12 volt | Cat. No. 27411 |
| Model 24 volt | Cat. No. 27412 |

Tilting angle : 110°



Turning Unit Models

| | |
|---------------|----------------|
| Model 12 volt | Cat. No. 27417 |
| Model 24 volt | Cat. No. 27418 |

Rotation : 360°



Tilt & Turning Units Remote Control

| | |
|------------------|----------------|
| Model 12/24 volt | Cat. No. 27421 |
|------------------|----------------|

NOTE :

Combined remote control for compressor, tilt & turning units is available on request.



All details given in this publication are approximate and may be subject to change without notice.

Distributor :

CLARK MASTS TEKSAM NV, Woudstraat 21, B-3600 Genk, Belgium

Tel : +32 (0)89 38 44 72 - Fax : +32 (0)89 38 61 41 - E-mail : info@teksam.be - Website : www.teklite.com

TEKLITE is a division of Clark Masts Teksam NV

ISO 9001:2000 CE