



TF 300XE - “Comfort” Light Robot Series

Middle-range mast robot lighting systems



Completely remote controlled lighting system for TF 300XE series of masts.

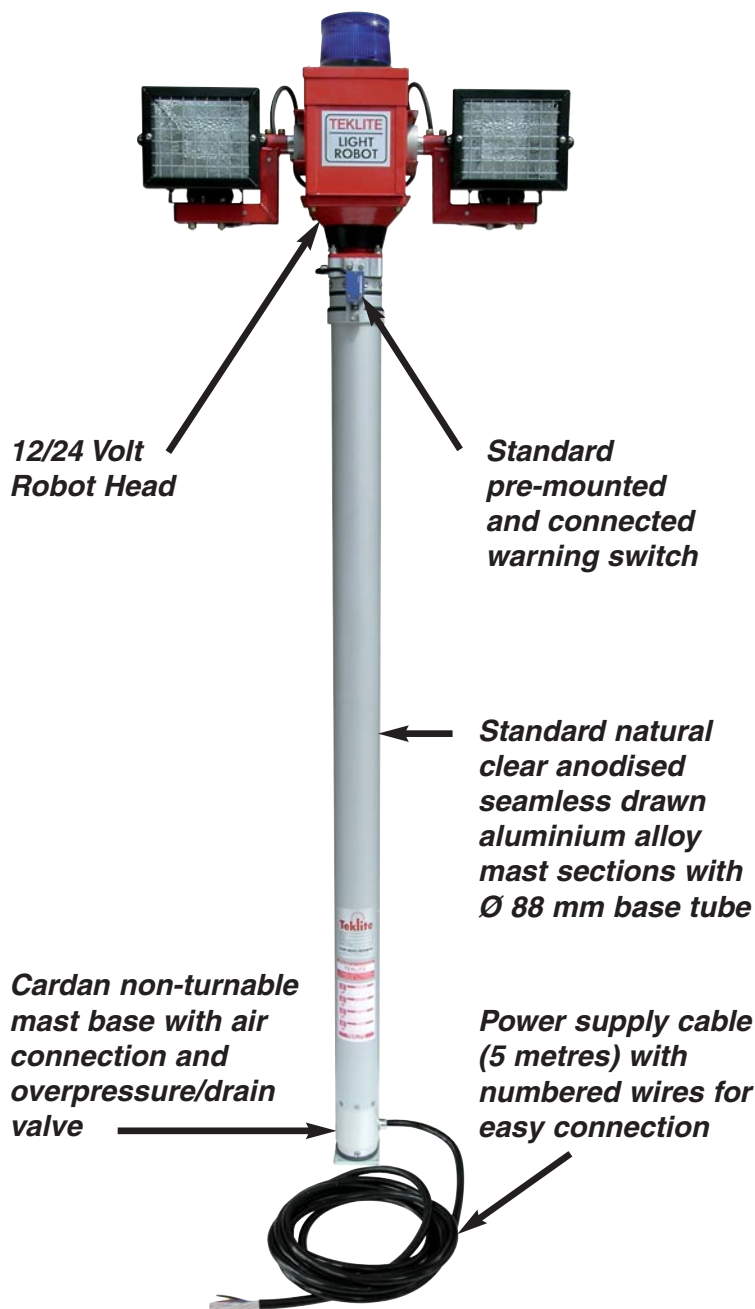
Light Robot's features

- *Compact construction*
- *Easy to install*
- *Simple to use*
- *Choice of different lamp types*



MOBILE, PORTABLE & EMERGENCY LIGHTING

Amazingly easy to operate !



Functions

- To extend the mast
- To switch the lighting left (lights 1) and right (lights 2) "on" and "off"
- Beacon switch
- To turn and tilt the lamps in any direction
- Automatic return to the retracted position (also when releasing the handbrake)



Here are the features that make fitting and operating this system so easy:

1. Electric system powered from the 12/24 volt vehicle battery and controlled by cable remote control.
2. It is possible to operate the mast robot lighting system with a single or double cable remote control, with or without RF remote control.
3. When the operation is over, a simple push of the button "mast down/park" turns the lamps to the stowage position and retracts the mast. This cycle may also be automatically started by the release of the vehicle handbrake.
4. Air-operated telescopic mast based on proven TF 300 series.
5. Robot lighting head tilts maximum 90° down and 180° up starting from zero position. The robot head turns also 180° to the left and 180° to the right starting from zero position, at the touch of a button.
6. Lamps can be either 12/24 volt or 110/230 volt if there is a generator on board.
7. All Mast Robot Lighting Systems are also available with deadman function for the push button "mast up/raise". Put "DF" after the control/junction unit cat. no. for ordering purposes.

Technical specifications Light Robot Series with TF 300XE masts

MAST ROBOT LIGHTING SYSTEM SPEC.

| | |
|---------------------------------|--|
| TF 300XE mast | : Anodised aluminium alloy sections (Ø 88 mm base tube) |
| Warning switch | : Standard pre-mounted and connected |
| TF 300XE "Comfort" Robot Head | : 12 or 24 volt |
| Lamp choice | : HPS, MH, Halogen, Xenophot, Xenon or SMD-LED |
| Remote control | : Push button models + RF model (option) |
| Control/Junction unit "Comfort" | : 12 or 24 volt |
| Air supply | : Compressor, Air Pressure Regulator or Air Pressure Valve Kit |
| Max. air pressure | : 1.8 bar |
| Options | : FireCAN & CANopen Interfaces available on request |

PERFORMANCE (to tilt and turn lamps)

| Turning speed | Time |
|----------------------------------|---------|
| Horizontal turning speed at 180° | 15 sec. |
| Vertical turning speed at 90° | 5 sec. |

TF 300XE MAST MODELS (Class II approved)

| TF 300XE Series masts | | | |
|-----------------------|----------|------------------|-----------------|
| Model | Cat. No. | Retracted height | Extended height |
| 3 section masts* | | | |
| TF 335XE/3* | 25654 | 1560 mm | 3510 mm |
| TF 340XE/3* | 25655 | 1715 mm | 3910 mm |
| TF 345XE/3* | 25658 | 2040 mm | 4725 mm |
| TF 350XE/3* | 25656 | 2090 mm | 4880 mm |
| TF 355XE/3* | 25657 | 2215 mm | 5220 mm |
| 4 section masts | | | |
| TF 320XE/4 | 25678 | 965 mm | 2140 mm |
| TF 335XE/4 | 25680 | 1350 mm | 3450 mm |
| TF 340XE/4 | 25681 | 1480 mm | 3950 mm |
| TF 346XE/4 | 25679 | 1640 mm | 4600 mm |
| TF 350XE/4 | 25682 | 1740 mm | 4990 mm |
| TF 355XE/4 | 25683 | 1900 mm | 5450 mm |

* All 3 section masts can be equipped with a S-STP/micro coax cable, suitable for video & audio applications.

LAMP UNIT CHOICE

Lamps can be supplied in 12, 24, 110 or 230 volt.



All robot heads are available with beacon (option). Put a "B" after the robot head cat. no. for ordering purposes.

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

Mast Lighting Robots are the most advanced, automatic lighting systems of the Teklite range.

They have features which make them suitable for medium or heavy size vehicles. One of the most attractive reasons to use a Light Robot is that it is installed with minimum work.

The telescopic mast of the mast robot lighting system can be fed by either :

1. the air compressor or
2. the air pressure tank of the vehicle.



| Cat. No. | Model | Volt | Ampere | Lumens |
|----------|-----------------------------|------|--------|--------|
| 25273 | 2 x 70 Watt HP Sodium* | 12 | 12,5 | 13.000 |
| 25274 | 2 x 70 Watt HP Sodium* | 24 | 7,0 | 13.000 |
| 25275 | 2 x 70 Watt Metal Halide* | 12 | 13,0 | 10.000 |
| 25276 | 2 x 70 Watt Metal Halide* | 24 | 7,4 | 10.000 |
| 27280 | 1 x 70 W HPS + 1 x 70 W MH* | 12 | 12,8 | 11.500 |
| 27285 | 1 x 70 W HPS + 1 x 70 W MH* | 24 | 7,2 | 11.500 |
| 25268 | 2 x 35 Watt Xenon | 24 | 3,0 | 7.000 |
| 25277 | 2 x 100 Watt Xenophot* | 12 | 16,7 | 7.200 |
| 25278 | 2 x 150 Watt Xenophot* | 24 | 12,5 | 12.000 |
| 27300 | 2 x 300 Watt Xenophot* | 24 | 25,0 | 24.000 |
| 25279 | 2 x 500 Watt Halogen* | 230 | 4,4 | 19.000 |
| 27301 | 2 x 750 Watt Halogen* | 230 | 6,5 | 33.000 |
| 25280 | 2 x 1000 Watt Halogen* | 230 | 8,7 | 44.000 |
| 35911 | 2 x 55 Watt SMD-LED* | 12 | 10,6 | 11.000 |
| 35916 | 2 x 55 Watt SMD-LED* | 24 | 4,8 | 11.000 |
| 25269 | 4 x 35 Watt Xenon | 24 | 5,9 | 14.000 |
| 25281 | 4 x 150 Watt Xenophot* | 24 | 25,0 | 24.000 |
| 25282 | 4 x 500 Watt Halogen* | 230 | 8,7 | 38.000 |
| 35921 | 4 x 55 Watt SMD-LED* | 12 | 21,2 | 22.000 |
| 35926 | 4 x 55 Watt SMD-LED* | 24 | 9,6 | 22.000 |
| 33425 | 6 x 35 Watt Xenon | 24 | 9,0 | 21.000 |
| 33435 | 6 x 500 Watt Halogen* | 230 | 13,0 | 57.000 |

Technical specifications Light Robot Series with TF 300XE masts

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. 16682/SG



Lower Mounting Bracket

Cat. No. 16686/SG

Internal mounting



Roof Bearing

Cat. No. 27623/SG

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



“TekAir” Compressor Model 40/50

Oil-free piston air compressor, completely maintenance-free.

Models with NO valve

Model 40/50, 12 volt Cat. No. 33652

Model 40/50, 24 volt Cat. No. 33653

Using the vehicle air pressure system



Air Pressure Regulator Unit

Combined unit consisting of valves, manometer, pressure switch and pressure regulator.

Models

APR Unit, 12 volt Cat. No. 25578

APR Unit, 24 volt Cat. No. 25579



Air Pressure Valve Kit

Kit consisting of loose valves, manometer and pressure regulator.

Models

APV Kit, 12 volt Cat. No. 27838

APV Kit, 24 volt Cat. No. 27839

MAST LIGHTING ROBOT WITH CONTROL/JUNCTION UNIT & REMOTE CONTROLS



Robot Head “Comfort”

Model 12V Cat. No. 25592

Model 24V Cat. No. 25593



Control/Junction Unit “Comfort”

Model 12V Cat. No. 27715

Model 24V Cat. No. 27716



Cable Remote Control-YH

Cat. No. 27723 (English)

Cat. No. 27724 (German)

1,5 metre spiral cable + 10 metres linear cable



Cable Remote Control-LV

Cat. No. 27731

1,25 metre spiral cable + 10 metres linear cable



RF Remote Control Kit

Cat. No. 27729 (Optional)

Kit contents : - RF Remote control
- Rechargeable battery
- 230 Volt charger
- 12/24 Volt car charger



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

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