



# TF 400XE - “Comfort” Light Robot Series

*Heavy-duty mast robot lighting systems*

Completely remote controlled lighting system for TF 400XE series of masts.

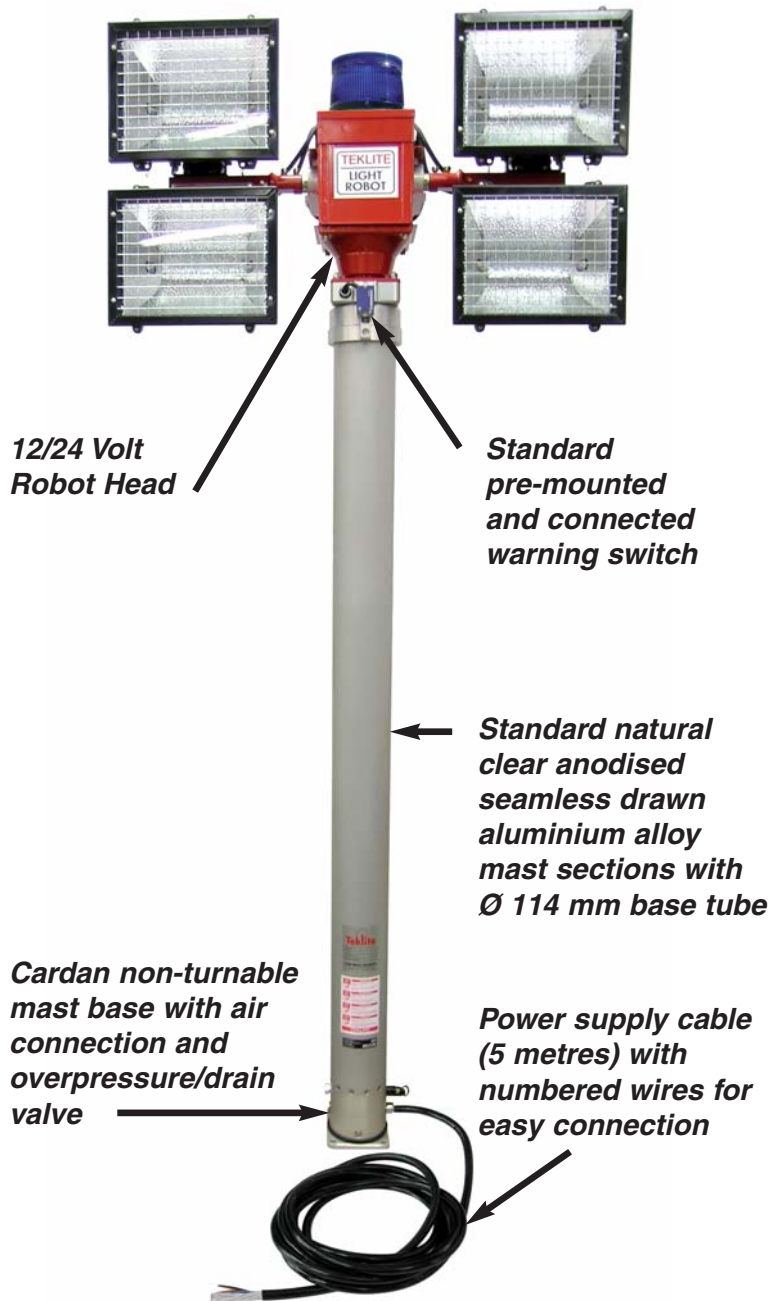
## *Light Robot's features*

- *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 400 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 400XE masts

## MAST ROBOT LIGHTING SYSTEM SPEC.

|                                 |  |
|---------------------------------|--|
| TF 400XE mast                   | : Anodised aluminium alloy sections (Ø 114 mm base tube)       |
| Warning switch                  | : Standard pre-mounted and connected                           |
| TF 400XE "Comfort" Robot Head   | : 12 or 24 volt  |
| Lamp choice                     | : HPS, MH, Halogen, Xenon, Xenarc 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            |

## TF 400XE MAST MODELS (Class II approved)

| TF 400XE Series masts   |          |                  |                 |
|-------------------------|----------|------------------|-----------------|
| Model                   | Cat. No. | Retracted height | Extended height |
| <b>4 section masts*</b> |          |                  |                 |
| TF 432XE/4*             | 25745    | 1230 mm          | 3140 mm         |
| TF 440XE/4*             | 25746    | 1480 mm          | 4050 mm         |
| TF 445XE/4*             | 25747    | 1660 mm          | 4700 mm         |
| TF 453XE/4*             | 25748    | 1830 mm          | 5395 mm         |
| TF 460XE/4*             | 25749    | 2030 mm          | 6000 mm         |
| <b>5 section masts</b>  |          |                  |                 |
| TF 432XE/5              | 25760    | 1025 mm          | 3100 mm         |
| TF 440XE/5              | 25761    | 1275 mm          | 4000 mm         |
| TF 445XE/5              | 25762    | 1445 mm          | 4600 mm         |
| TF 453XE/5              | 25763    | 1670 mm          | 5300 mm         |
| TF 460XE/5              | 25764    | 1820 mm          | 5950 mm         |
| TF 470XE/5              | 25766    | 2000 mm          | 7000 mm         |

\* All 4 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.

## PERFORMANCE (to tilt and turn lamps)

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

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 | Amps | 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 Xenarc            | 24   | 3,0  | 7.000   |
| 25277    | 2 x 100 Watt Xenon*           | 12   | 16,7 | 7.200   |
| 25278    | 2 x 150 Watt Xenon*           | 24   | 12,5 | 12.000  |
| 27300    | 2 x 300 Watt Xenon*           | 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  |
| 25860    | 2 x 1500 Watt Halogen*        | 230  | 13,0 | 72.000  |
| 27310    | 2 x 150 Watt Metal Halide     | 24   | 12,5 | 22.500  |
| 25108    | 2 x 250 Watt HP Sodium        | 24   | 23,0 | 54.000  |
| 27315    | 2 x 400 Watt HP Sodium*       | 230  | 9,0  | 110.000 |
| 27320    | 2 x 400 Watt Metal Halide*    | 230  | 9,0  | 66.000  |
| 27325    | 1 x 400 W HPS + 1 x 400 W MH* | 230  | 9,0  | 88.000  |
| 35911    | 2 x 50 Watt SMD-LED*          | 12   | 10,6 | 10.000  |
| 35916    | 2 x 50 Watt SMD-LED*          | 24   | 4,8  | 10.000  |
| 27335    | 4 x 70 Watt HP Sodium*        | 24   | 14,0 | 26.000  |
| 27345    | 4 x 70 Watt Metal Halide*     | 24   | 14,8 | 20.000  |
| 27355    | 2 x 70 W HPS + 2 x 70 W MH*   | 24   | 14,4 | 23.000  |
| 25269    | 4 x 35 Watt Xenarc            | 24   | 5,9  | 14.000  |
| 25281    | 4 x 150 Watt Xenon*           | 24   | 25,0 | 24.000  |
| 25282    | 4 x 500 Watt Halogen*         | 230  | 8,7  | 38.000  |
| 27366    | 4 x 750 Watt Halogen*         | 230  | 13,0 | 66.000  |
| 25283    | 4 x 1000 Watt Halogen*        | 230  | 17,4 | 88.000  |
| 25861    | 4 x 1500 Watt Halogen*        | 230  | 26,2 | 144.000 |
| 27380    | 4 x 400 Watt HP Sodium*       | 230  | 18,0 | 220.000 |
| 27385    | 4 x 400 Watt Metal Halide*    | 230  | 18,0 | 132.000 |
| 27390    | 2 x 400 W HPS + 2 x 400 W MH* | 230  | 18,0 | 176.000 |
| 35921    | 4 x 50 Watt SMD-LED*          | 12   | 21,2 | 20.000  |
| 35926    | 4 x 50 Watt SMD-LED*          | 24   | 9,6  | 20.000  |
| 33425    | 6 x 35 Watt Xenarc            | 24   | 9,0  | 21.000  |
| 33430    | 6 x 120 Watt Xenon*           | 24   | 30,0 | 21.600  |
| 33435    | 6 x 500 Watt Halogen*         | 230  | 13,0 | 57.000  |
| 33440    | 6 x 750 Watt Halogen*         | 230  | 19,6 | 99.000  |
| 33445    | 6 x 1000 Watt Halogen*        | 230  | 26,0 | 132.000 |
| 35931    | 6 x 50 Watt SMD-LED*          | 12   | 31,8 | 30.000  |
| 35936    | 6 x 50 Watt SMD-LED*          | 24   | 14,4 | 30.000  |

# Technical specifications Light Robot Series with TF 400XE 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. 14049/SG



**Lower Mounting Bracket**

Cat. No. 14050/SG

### Internal mounting



**Roof Bearing**

Cat. No. 27624/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



#### 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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