



# TF 400XE - “Comfort” Light Robot Series

## *Heavy-duty mast robot lighting systems*

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

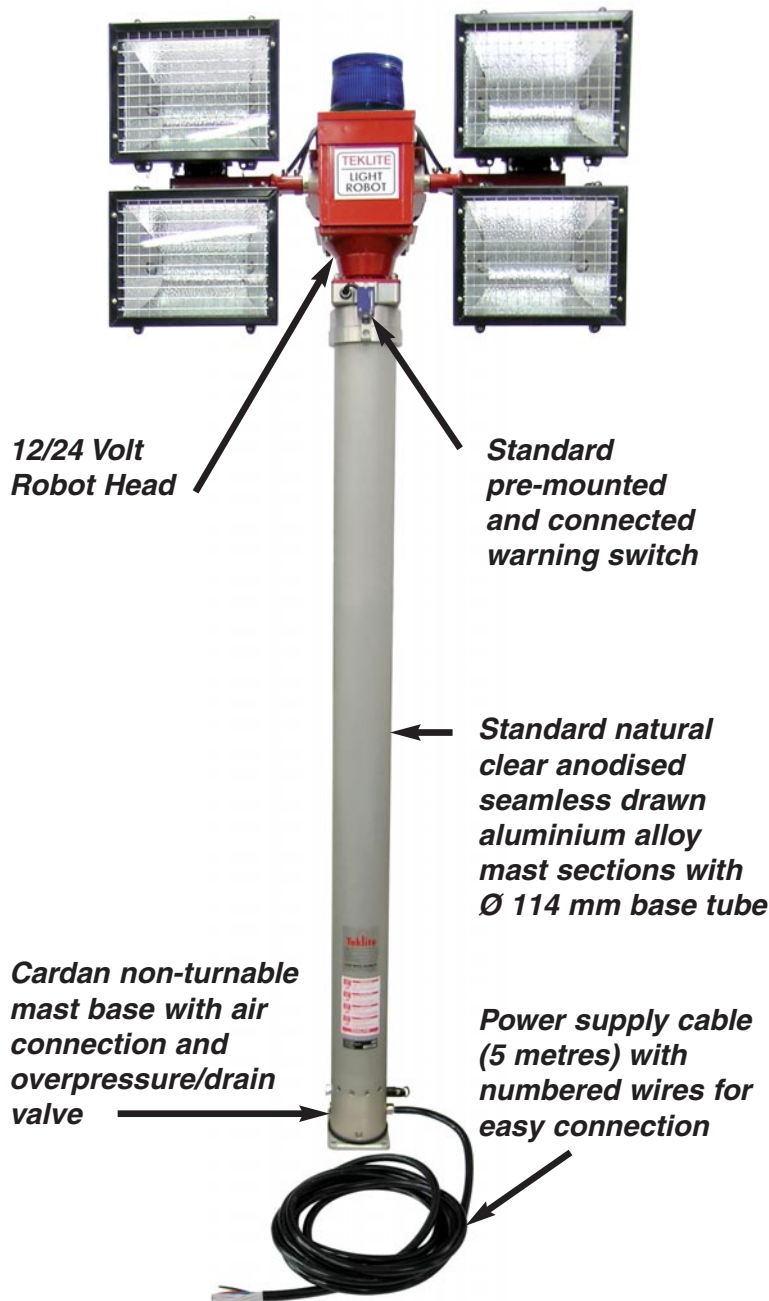
### *Light Robot’s features*

- *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, 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

## 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
<b>6 section masts</b>			
TF 453XE/6	34392	1450 mm	5300 mm

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.



\* 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.

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
25860	2 x 1500 Watt Halogen*	230	13,0	72.000
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 55 Watt SMD-LED*	12	10,6	11.000
35916	2 x 55 Watt SMD-LED*	24	4,8	11.000
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 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
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 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
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 55 Watt SMD-LED*	12	31,8	33.000
35936	6 x 55 Watt SMD-LED*	24	14,4	33.000

# 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



#### “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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