



# TOWER SECTOR TWS

## LAMPADE A LED - LED BULBS - AMPOULES A LED - LED-LEUCHTMITTEL - LÁMPARAS DE LEDS 24V $\equiv$ / $\sim$ 0,3W - 0,7W



LD 103

AllnGaP LED  
Ø 3 mm.  
mCd(p) 200



LD 105 Ellisse

AllnGaP LED  
Ø 5 mm.  
mCd(p) 1500



LD 105 Ellisse EXL

DURATA GARANTITA - GUARANTEED DURATION - DUREE GARANTIE - GARANTIERTE DAUER - DURACIÓN GARANTIZADA  
100.000 h. ~

### LUCE FREDDA PER TOWER SECTOR

Con le lampade a LED di altissima efficienza luminosa, risulta molto agevole l'interfaccia con PLC grazie al basso assorbimento (0,3W - 0,7W). Inoltre questo tipo di lampada è consigliato in applicazioni su macchine con elevate vibrazioni nel funzionamento.

### COLD LIGHT FOR TOWER SECTOR

Using LED bulbs with high effective light output the interface connection to the PLC is made simple thanks to the low absorption (0,3W-0,7W). Furthermore, this type of bulb is recommended when the TOWER SECTOR is installed on machines subject to vibration.

### LUMIERE FROIDE POUR TOWER SECTOR

Avec des ampoules à LED d'une grande efficacité lumineuse, la connexion de l'interface avec le PLC est facilitée grâce à la faible consommation (0,3W-0,7W). De plus, ce type d'ampoule est recommandé pour des applications sur des machines à fortes vibrations.

### KALTES LICHT FÜR TOWER SECTOR

Mit den LED-Leuchtmitteln mit höher Lichtstärke, ist es äußerst leicht, den TOWER SECTOR am Ausgang des Interfaces PLC, dank des niedrigen Stromverbrauches (0,3W-0,7W), anzuschließen. Außerdem ist dieses Leuchtmittel zur Anwendung auf hochvibrierenden Maschinen empfohlen.

### LUZ FRIA PARA TOWER SECTOR

Con las lámparas de LEDS, de muy elevada eficiencia luminosa y de baja absorción (0,3W-0,7W), el interface con PLC resulta extremadamente fácil. Además se recomienda este tipo de lámpara en aplicaciones sobre máquinas de altas vibraciones durante el funcionamiento.

La componibilità del TOWER SECTOR risulta essere molto semplice: il collegamento elettrico tra i moduli è automatico e contemporaneo all'inserimento meccanico.

Per la costruzione di un TOWER SECTOR è comunque indispensabile l'utilizzo del modulo di base che permetterà di realizzare i collegamenti elettrici. Su questo verranno inseriti i vari moduli qui di seguito descritti.

The assembly of the TOWER SECTOR is simple: the electrical wiring between the modules is automatic and simultaneous to the mechanical insertion.

It is, however, essential to use the TOWER SECTOR base module for the construction, in order to allow the electrical wiring. The various modules, as described below, can then be added.

La TOWER SECTOR se monte très facilement: le branchement électrique entre les modules est automatique et le montage mécanique se fait simultanément.

Toutefois, il est indispensable d'utiliser le module de base de la TOWER SECTOR pour l'assemblage d'une colonne, celui-ci permettant de réaliser les branchements électriques. Sur ce module, d'autres éléments pourront être montés, comme décrit ci-dessous.

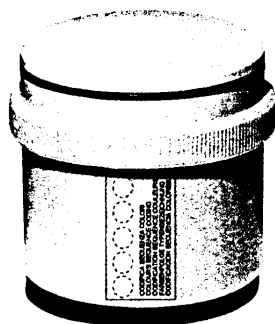
Die Modularität der TOWER SECTOR Signalsäulen ist sehr einfach: Die elektrische Verbindung der Elemente ist automatisch und gleichzeitig auch mechanische Verbindung.

Für die Montage einer TOWER SECTOR Signalsäule ist die Anwendung eines Anschlußelements unbedingt erforderlich, um die elektrische Verbindung zu realisieren. Auf dieses Element werden folgende Signalelemente aufeinandergesetzt.

El montaje del TOWER SECTOR resulta ser muy simple: la conexión eléctrica entre los módulos se lleva a cabo automáticamente y contemporaneamente al ensamblaje mecánico.

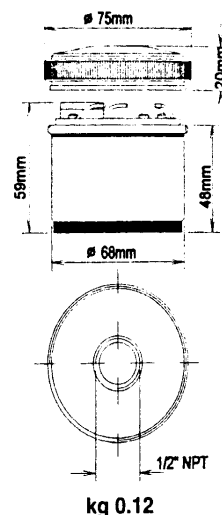


**POWER SECTOR  
TWS**



**TWS B.C.**

BASE + CAPPELLO - BASE + COVER - BASE + COUVERCLE  
SOCKEL + DECKEL - BASE + TAPA



|                                                                                               |                                                                                           |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO                                                      | <input type="checkbox"/> 27700 <input checked="" type="checkbox"/> 27690                  |
| TIPO D'IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA INDIVIDUAL |

**CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES  
TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS**

**CARATTERISTICHE MECCANICHE - MECHANICAL CHARACTERISTICS - CARACTERISTIQUES MECANIKES  
MECHANISCHE EIGENSCHAFTEN - CARACTERÍSTICAS MECANICAS**

|                                                                                                                                                                                                  |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| GRADO DI PROTEZIONE<br>DEGREE OF PROTECTION<br>DEGRE DE PROTECTION<br>SCHUTZART<br>GRADO DE PROTECCIÓN                                                                                           | IP66               |
| TEMPERATURA DI FUNZIONAMENTO<br>OPERATING TEMPERATURE<br>TEMPERATURE DE FONCTIONNEMENT<br>BETRIEBSTEMPERATUR<br>TEMPERATURA DE FUNCIONAMIENTO                                                    | -30°C +60°C        |
| TEMPERATURA DI MAGAZZINAGGIO<br>STORAGE TEMPERATURE<br>TEMPERATURE DE STOCKAGE<br>LAGERUNGSTEMPERATUR<br>TEMPERATURA DE ALMACENAJE                                                               | -40°C +85°C        |
| SEZIONE CAVO RACCOMANDATA<br>RECOMMENDED WIRE SIZE<br>SECTION DU CABLE RECOMMANDEE<br>EMPFOHLENER KABELSCHNITT<br>SECCIÓN DE CABLE RECOMENDADA                                                   | 0,5-2,5 mm         |
| COPPIA DI SERRAGGIO GHIERA CAPPELLO<br>COVER LOCKRING TIGHTENING TORQUE<br>COUPLE DE SERRAGE AU COLLIER DU COUVERCLE<br>ANZUGSMOMENT DER DECKEL-NUNMUTTER<br>PAR DE APRIETE DE LA VIROLA DE TAPA | Nm 4 (Kgm. 0.4)    |
| COPPIA DI SERRAGGIO AI MORSETTI RACCOMANDATA<br>RECOMMENDED TERMINAL TIGHTENING TORQUE<br>COUPLE DE SERRAGE AUX BORNES RECOMMANDE<br>EMPFOHLENER KLEMMEN-ANZUGSMOMENT                            | Nm 0.5 (Kgm. 0.05) |



# TOWER SECTOR TWS

**TWS B.G.**

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### CARATTERISTICHE ELETTRICHE - ELECTRICAL CHARACTERISTICS - CARACTERISTIQUES ELECTRIQUES ELEKTRISCHE EIGENSCHAFTEN - CARACTERÍSTICAS ELÉCTRICAS

TENSIONE  
VOLTAGE  
TENSION  
SPANNUNG  
VOLTAJE

MAX 240V

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### MATERIALI - MATERIALS - MATERIAUX - MATERIALIEN - MATERIALES

CORPO  
HOUSING  
BOITIER  
GEHÄUSE  
CAJA

PC

GRIGIO  
GREY  
GRIS  
GRAU  
GRIS

RAL 7035

NERO  
BLACK  
NOIR  
SCHWARZ  
NEGRO

RAL 9005

COVER AND LOCKRING  
COUVERCLE ET COLLIER  
DECKEL UND NUTMUTTER  
TAPA Y VIROLA

PC

GRIGIO  
GREY  
GRIS  
GRAU  
GRIS

RAL 7035

NERO  
BLACK  
NOIR  
SCHWARZ  
NEGRO

RAL 9005

GUARNIZIONE DI BASE  
BASE GASKET  
JOINT DE BASE  
SOCKELDICHTUNG  
JUNTA DE BASE

EPDM

GUARNIZIONE  
GASKET  
JOINT  
DICHTUNG  
JUNTA

EPDM

VITI IMPERDIBILI  
CAPTIVE SCREWS  
VIS IMPERDABLES  
UNVERLIERBARE SCHRAUBEN  
TORNILLOS IMPERDIBLES

SCREW PLAST

ACCIAIO ZINCATO  
ZINC COATED STEEL  
ACIER ZINGUE  
VERZINKTER STAHL  
ACERO CINCADO

CIRCUITO STAMPATO DI BASE  
BASE PRINTED CIRCUIT  
CIRCUIT IMPRIME DE BASE  
SOCKET-PLATINE  
CIRCUITO GRABADO DE BASE

FR4

MORSETTIERA  
TERMINAL BOARD  
BORNIER  
KLEMMBRETT  
TABLERO DE BORNES

6 VIE  
6 WAY  
6 VOIES  
6 EINGÄNGE  
6 VIAS

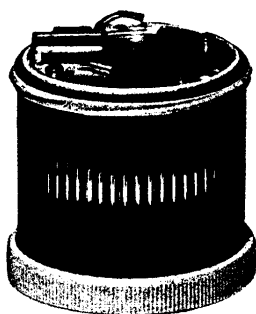
PA 6.6

FASCETTA RITENUTA CAVO  
CABLE CLAMP  
COLLIER POUR CABLE  
KABELBAND  
ABRAZADERA PARA CABLES

NYLON 6.6

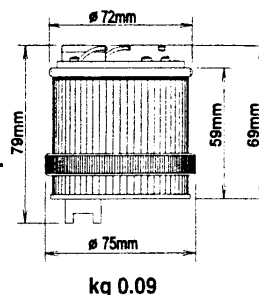


# TOWER SECTOR TWS



## TWS F

MODULO LUMINOSO FISSO - CONTINUOUS LIGHT MODULE -  
ELEMENT LUMINEUX FIXE - DAUERLICHT-ELEMENT -  
ELEMENTO ÓPTICO FIJO



FORNITO SENZA LAMPADA - SUPPLIED WITHOUT BULB - FOURNI SANS AMPOULE - GELIEFERT OHNE LAMPE - SUMINISTRADO SIN LÁMPARA

|                                                                                               |                                                                                                                                                                                                          |                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO                                                      | <input type="checkbox"/> 27701<br><input type="checkbox"/> 27702<br><input type="checkbox"/> 27703<br><input type="checkbox"/> 27704<br><input type="checkbox"/> 27705<br><input type="checkbox"/> 27706 | <input type="checkbox"/> 27631<br><input type="checkbox"/> 27632<br><input type="checkbox"/> 27633<br><input type="checkbox"/> 27634<br><input type="checkbox"/> 27635<br><input type="checkbox"/> 27636 |
| TIPO D'IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA INDIVIDUAL                                                                                                                |                                                                                                                                                                                                          |

### CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

#### CARATTERISTICHE MECCANICHE - MECHANICAL CHARACTERISTICS - CARACTERISTIQUES MECANIKES MECHANISCHE EIGENSCHAFTEN - CARACTERÍSTICAS MECANICAS

|                                                                                                                                                       |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| GRADO DI PROTEZIONE<br>DEGREE OF PROTECTION<br>DEGRE DE PROTECTION<br>SCHUTZART<br>GRADO DE PROTECCIÓN                                                | IP66            |
| TEMPERATURA DI FUNZIONAMENTO<br>OPERATING TEMPERATURE<br>TEMPERATURE DE FONCTIONNEMENT<br>BETRIEBSTEMPERATUR<br>TEMPERATURA DE FUNCIONAMIENTO         | -30°C +60°C     |
| TEMPERATURA DI MAGAZZINAGGIO<br>STORAGE TEMPERATURE<br>TEMPERATURE DE STOCKAGE<br>LAGERUNGSTEMPERATUR<br>TEMPERATURA DE ALMACENAJE                    | -40°C +85°C     |
| COPPIA DI SERRAGGIO GHIERA<br>LOCKRING TIGHTENING TORQUE<br>COUPLE DE SERRAGE AU COLLIER<br>ANZUGSMOMENT DER NUNMUTTER<br>PAR DE APRIETE DE LA VIROLA | Nm 4 (Kgm. 0.4) |

### CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

#### CARATTERISTICHE ELETTRICHE - ELECTRICAL CHARACTERISTICS - CARACTERISTIQUES ELECTRIQUES ELEKTRISCHE EIGENSCHAFTEN - CARACTERÍSTICAS ELÉCTRICAS

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| TENSIONE<br>VOLTAGE<br>TENSION<br>SPANNUNG | MAX 240V $\overline{\overline{=}}$ / $\sim$ 50/60 Hz |
|--------------------------------------------|------------------------------------------------------|



# TOWER SECTOR TWS

## TWS F

|               |          |     |     |     |     |     |     |
|---------------|----------|-----|-----|-----|-----|-----|-----|
| Ba15d<br>5/7W | V $\sim$ | 12  | 24  | 48  | 110 | 230 | 240 |
|               | mA       | 430 | 210 | 100 | 35  | 21  | 22  |
|               | Cd(p)    | 4   | 3   | 3   | 2,5 | 2,5 | 2,5 |

Ba15d  
24V  $\sim$ / $\sim$   
LD 103  
10 LED

| mA | mCd(p)* |
|----|---------|
| 20 | 220     |
| 20 | 200     |

Ba15d  
24V  $\sim$ / $\sim$   
LD 105 Ellisse  
10 LED

| mA | mCd(p)* |
|----|---------|
| 20 | 1300    |
| 20 | 1300    |

\* Valore 1 LED  
Value 1 LED  
Valeur 1 LED  
Wert 1 LED  
Valor 1 LED

Ba15d  
24V  $\sim$ / $\sim$   
LD 105  
Ellisse EXL  
10 LED

| mA | mCd(p)* |
|----|---------|
| 40 | 350     |
| 40 | 1300    |

|                                                                                                                                                                     |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| DURATA DELLE LAMPAD E A FILAMENTO - DURATION OF FILAMENT BULBS -<br>DUREE DES AMPOULES A FILAMENT - DAUER DER GLÜHLAMPEN -<br>DURACIÓN DE LAS LÁMPARAS DE FILAMENTO | 2.000 h ~   |
| DURATA DELLE LAMPAD E A LED - DURATION OF LED BULBS -<br>DUREE DES AMPOULES A LED - DAUER DER LED-LEUCHTMITTEL -<br>DURACIÓN DE LAS LÁMPARAS DE LEDS                | 100.000 h ~ |

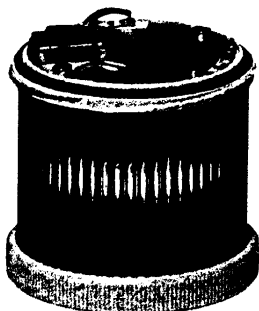
## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### MATERIALI - MATERIALS - MATERIAUX - MATERIALIEN - MATERIALES

|                                                                                                                                                                                                                                 |                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| CUPOLA<br>LENS<br>DOME<br>HAUBE<br>CÚPULA                                                                                                                                                                                       | PC                                                                                                                |
| SEPARATORE DI LUCE, PORTALAMPADA E GHIERA<br>LIGHT SEPARATOR, LAMPHOLDER AND LOCKRING<br>SEPARATEUR DE LUMIERE, DOUILLE ET COLLIER<br>LICHTABSCHNEIDER, LAMPENFASSUNG UND NUTMUTTER<br>SEPARADOR DE LUZ, PORTA-LÁMPARA Y VIROLA | PC<br>GRIGIO<br>GREY<br>GRIS<br>RAL 7035<br>GRAU<br>GRIS<br>NERO<br>BLACK<br>NOIR<br>RAL 9005<br>SCHWARZ<br>NEGRO |
| GUARNIZIONI<br>GASKETS<br>JOINTS<br>DICHTUNGEN<br>JUNTAS                                                                                                                                                                        | EPDM                                                                                                              |
| VITI<br>SCREWS<br>VIS<br>SCHRAUBEN<br>TORNILLOS                                                                                                                                                                                 | SCREW PLAST<br>ACCIAIO ZINCATO<br>ZINC COATED STEEL<br>ACIER ZINGUE<br>VERZINKTER STAHL<br>ACERO CINCADO          |
| CIRCUITO STAMPATO VERTICALE<br>VERTICAL PRINTED CIRCUIT<br>CIRCUIT IMPRIME VERTICAL<br>SENKRECHTE PLATINE<br>CIRCUITO GRABADO VERTICAL                                                                                          | FR4                                                                                                               |

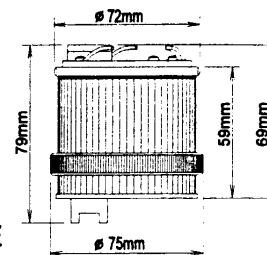


# TOWER SECTOR TWS



## TWS L

MODULO LUMINOSO LAMPEGGIANTE - BLINKING LIGHT  
MODULE - ELEMENT LUMINEUX CLIGNOTANT -  
BLINKLICHT-ELEMENT - ELEMENTO ÓPTICO INTERMITENTE



kg 0.10

FORNITO SENZA LAMPADA - SUPPLIED WITHOUT BULB - FOURNI SANS AMPOULE - GELIEFERT OHNE LAMPE - SUMINISTRADO SIN LÁMPARA

|                   |                          |       |                          |       |                          |       |                          |       |
|-------------------|--------------------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|-------|
| CODICE            | <input type="checkbox"/> | 27711 | <input type="checkbox"/> | 27721 | <input type="checkbox"/> | 27641 | <input type="checkbox"/> | 27651 |
| CODE              | <input type="checkbox"/> | 27712 | <input type="checkbox"/> | 27722 | <input type="checkbox"/> | 27642 | <input type="checkbox"/> | 27652 |
| CODE              | <input type="checkbox"/> | 27713 | <input type="checkbox"/> | 27723 | <input type="checkbox"/> | 27643 | <input type="checkbox"/> | 27653 |
| KODE              | <input type="checkbox"/> | 27714 | <input type="checkbox"/> | 27724 | <input type="checkbox"/> | 27644 | <input type="checkbox"/> | 27654 |
| CODIGO            | <input type="checkbox"/> | 27715 | <input type="checkbox"/> | 27725 | <input type="checkbox"/> | 27645 | <input type="checkbox"/> | 27655 |
|                   | <input type="checkbox"/> | 27716 | <input type="checkbox"/> | 27726 | <input type="checkbox"/> | 27646 | <input type="checkbox"/> | 27656 |
| 12V÷48 V ---      |                          |       |                          |       | 24V÷240V ~               |       |                          |       |
| TIPO D'IMBALLO    |                          |       |                          |       | SCATOLA SINGOLA          |       |                          |       |
| TYPE OF PACKAGING |                          |       |                          |       | SINGLE BOX               |       |                          |       |
| TYPE D'EMBALLAGE  |                          |       |                          |       | BOITE INDIVIDUELLE       |       |                          |       |
| VERPACKUNGSTYP    |                          |       |                          |       | EINZELSCHACHTEL          |       |                          |       |
| TIPO DE EMBALAJE  |                          |       |                          |       | CAJA INDIVIDUAL          |       |                          |       |

| CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES<br>TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS             |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CARATTERISTICHE MECCANICHE - MECHANICAL CHARACTERISTICS - CARACTERISTIQUES MECANIKES<br>MECHANISCHE EIGENSCHAFTEN - CARACTERÍSTICAS MECANICAS         |                 |
| GRADO DI PROTEZIONE<br>DEGREE OF PROTECTION<br>DEGRE DE PROTECTION<br>SCHUTZART<br>GRADO DE PROTECCIÓN                                                | IP66            |
| TEMPERATURA DI FUNZIONAMENTO<br>OPERATING TEMPERATURE<br>TEMPERATURE DE FONCTIONNEMENT<br>BETRIEBSTEMPERATUR<br>TEMPERATURA DE FUNCIONAMIENTO         | -30°C +60°C     |
| TEMPERATURA DI MAGAZZINAGGIO<br>STORAGE TEMPERATURE<br>TEMPERATURE DE STOCKAGE<br>LAGERUNGSTEMPERATUR<br>TEMPERATURA DE ALMACENAJE                    | -40°C +85°C     |
| COPPIA DI SERRAGGIO GHIERA<br>LOCKRING TIGHTENING TORQUE<br>COUPLE DE SERRAGE AU COLLIER<br>ANZUGSMOMENT DER NUNMUTTER<br>PAR DE APRIETE DE LA VIROLA | Nm 4 (Kgm. 0.4) |

| CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES<br>TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS        |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| CARATTERISTICHE ELETTRICHE - ELECTRICAL CHARACTERISTICS - CARACTERISTIQUES ELECTRIQUES<br>ELEKTRISCHE EIGENSCHAFTEN - CARACTERÍSTICAS ELÉCTRICAS |                                        |
| TENSIONE<br>VOLTAGE<br>TENSION<br>SPANNUNG<br>VOLTAGE                                                                                            | 12V ÷ 48V ---<br>24V ÷ 240V ~ 50/60 Hz |



# TOWER SECTOR TWS

## TWS L

|               |            |              |     |     |     |     |     |
|---------------|------------|--------------|-----|-----|-----|-----|-----|
| Ba15d<br>5/7W | V $\equiv$ | 12           | 24  | 48  | —   | —   | —   |
|               | V $\sim$   | —            | 24  | 48  | 110 | 230 | 240 |
|               | mA         | 430          | 210 | 103 | 37  | 26  | 27  |
|               | Cd(p)      | 4            | 3   | 3   | 2,5 | 2,5 | 2,5 |
|               | F/m        | 110 $\pm$ 20 |     |     |     |     |     |

Ba15d  
24V  $\equiv$  /  $\sim$   
LD 103  
10 LED

|  |    |         |
|--|----|---------|
|  | mA | mCd(p)* |
|  | 20 | 220     |
|  | 20 | 200     |

\* Valore 1 LED  
Value 1 LED  
Valeur 1 LED  
Wert 1 LED  
Valor 1 LED

Ba15d  
24V  $\equiv$  /  $\sim$   
LD 105 Ellisse  
10 LED

|  |    |         |
|--|----|---------|
|  | mA | mCd(p)* |
|  | 20 | 1300    |
|  | 20 | 1300    |

Ba15d  
24V  $\equiv$  /  $\sim$   
LD 105  
Ellisse EXL  
10 LED

|  |    |         |
|--|----|---------|
|  | mA | mCd(p)* |
|  | 40 | 350     |
|  | 40 | 1300    |

|                                                                                                                                                                     |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| FUSIBILE DI PROTEZIONE - PROTECTION FUSE - FUSIBLE DE SECURITE<br>SCHUTZ-SICHERUNG - FUSIBLE DE PROTECCIÓN                                                          | 5 x 20      |
| DURATA DELLE LAMPAD E A FILAMENTO - DURATION OF FILAMENT BULBS -<br>DUREE DES AMPOULES A FILAMENT - DAUER DER GLÜHLAMPEN -<br>DURACIÓN DE LAS LÁMPARAS DE FILAMENTO | 2.000 h ~   |
| DURATA DELLE LAMPAD E A LED - DURATION OF LED BULBS -<br>DUREE DES AMPOULES A LED - DAUER DER LED-LEUCHTMITTEL -<br>DURACIÓN DE LAS LÁMPARAS DE LEDS                | 100.000 h ~ |

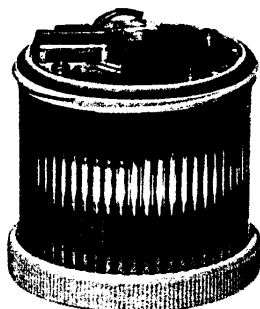
## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### MATERIALI - MATERIALS - MATERIAUX - MATERIALIEN - MATERIALES

|                                                                                                                                                                                                                                 |                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| CUPOLA<br>LENS<br>DOME<br>HAUBE<br>CÚPULA                                                                                                                                                                                       | PC                                                                                                                |
| SEPARATORE DI LUCE, PORTALAMPADA E GHIERA<br>LIGHT SEPARATOR, LAMPHOLDER AND LOCKRING<br>SEPARATEUR DE LUMIERE, DOUILLE ET COLLIER<br>LICHTABSCHNEIDER, LAMPENFASSUNG UND NUTMUTTER<br>SEPARADOR DE LUZ, PORTA-LÁMPARA Y VIROLA | PC<br>GRIGIO<br>GREY<br>GRIS<br>RAI 7035<br>GRAU<br>GRIS<br>NERO<br>BLACK<br>NOIR<br>RAL 9005<br>SCHWARZ<br>NEGRO |
| GUARNIZIONI<br>GASKETS<br>JOINTS<br>DICHTUNGEN<br>JUNTAS                                                                                                                                                                        | EPDM                                                                                                              |
| VITI<br>SCREWS<br>VIS<br>SCHRAUBEN<br>TORNILLOS                                                                                                                                                                                 | SCREW PLAST<br>ACCIAIO ZINCATO<br>ZINC COATED STEEL<br>ACIER ZINGUE<br>VERZINKTER STAHL<br>ACERO CINCADO          |
| CIRCUITI STAMPATI<br>PRINTED CIRCUITS<br>CIRCUITS IMPRIMES<br>PLATINEN<br>CIRCUITOS GRABADOS                                                                                                                                    | FR4                                                                                                               |

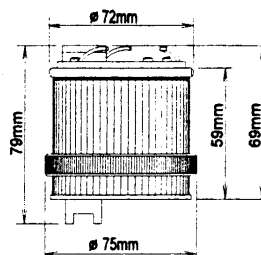


**TOWER SECTOR  
TWS**



**TWS X**

**MODULO LUMINOSO A FLASH - XENON FLASHING LIGHT  
MODULE - ELEMENT LUMINEUX AU XENON -  
BLITZLICHT-ELEMENT - ELEMENTO ÓPTICO DESTELLANTE**



kg 0.13

FORNITO CON TUBO ALLO XENO 2J - SUPPLIED WITH XENON TUBE 2J - FOURNI AVEC TUBE AU XENON 2J -  
GELIEFERT MIT ENTLADUNGSRÖHRE 2J - SUMINISTRADO CON TUBO DE XENON 2J

|                                                                                               |                          |       |                          |       |                          |                                                                                           |                          |       |                          |       |                          |       |
|-----------------------------------------------------------------------------------------------|--------------------------|-------|--------------------------|-------|--------------------------|-------------------------------------------------------------------------------------------|--------------------------|-------|--------------------------|-------|--------------------------|-------|
| CODICE                                                                                        | <input type="checkbox"/> | 27731 | <input type="checkbox"/> | 27741 | <input type="checkbox"/> | 27751                                                                                     | <input type="checkbox"/> | 27661 | <input type="checkbox"/> | 27671 | <input type="checkbox"/> | 27681 |
| CODE                                                                                          |                          | 27732 |                          | 27742 |                          | 27752                                                                                     |                          | 27662 |                          | 27672 |                          | 27682 |
| CODE                                                                                          | 24V---/~                 | 27733 | 110V ~                   | 27743 | 230V ~                   | 27753                                                                                     | 24V---/~                 | 27663 | 110V ~                   | 27673 | 230V ~                   | 27683 |
| KODE                                                                                          |                          | 27734 |                          | 27744 | 240V ~                   | 27754                                                                                     |                          | 27664 |                          | 27674 | 240V ~                   | 27684 |
| CODIGO                                                                                        |                          | 27735 |                          | 27745 |                          | 27755                                                                                     |                          | 27665 |                          | 27675 |                          | 27685 |
|                                                                                               |                          | 27736 |                          | 27746 |                          | 27756                                                                                     |                          | 27666 |                          | 27676 |                          | 27686 |
| TIPO D'IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE |                          |       |                          |       |                          | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA INDIVIDUAL |                          |       |                          |       |                          |       |

**CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES  
TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS**

**CARATTERISTICHE MECCANICHE - MECHANICAL CHARACTERISTICS - CARACTERISTIQUES MECANIKES  
MECHANISCHE EIGENSCHAFTEN - CARACTERÍSTICAS MECANICAS**

|                                                                                                                                                       |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| GRADO DI PROTEZIONE<br>DEGREE OF PROTECTION<br>DEGRE DE PROTECTION<br>SCHUTZART<br>GRADO DE PROTECCIÓN                                                | IP66            |
| TEMPERATURA DI FUNZIONAMENTO<br>OPERATING TEMPERATURE<br>TEMPERATURE DE FONCTIONNEMENT<br>BETRIEBSTEMPERATUR<br>TEMPERATURA DE FUNCIONAMIENTO         | -10°C +50°C     |
| TEMPERATURA DI MAGAZZINAGGIO<br>STORAGE TEMPERATURE<br>TEMPERATURE DE STOCKAGE<br>LAGERUNGSTEMPERATUR<br>TEMPERATURA DE ALMACENAJE                    | -40°C +85°C     |
| COPPIA DI SERRAGGIO GHIERA<br>LOCKRING TIGHTENING TORQUE<br>COUPLE DE SERRAGE AU COLLIER<br>ANZUGSMOMENT DER NUNMUTTER<br>PAR DE APRIETE DE LA VIROLA | Nm 4 (Kgm. 0.4) |

**CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES  
TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS**

**CARATTERISTICHE ELETTRICHE - ELECTRICAL CHARACTERISTICS - CARACTERISTIQUES ELECTRIQUES  
ELEKTRISCHE EIGENSCHAFTEN - CARACTERÍSTICAS ELÉCTRICAS**

|                                                       |                                                               |
|-------------------------------------------------------|---------------------------------------------------------------|
| TENSIONE<br>VOLTAGE<br>TENSION<br>SPANNUNG<br>VOLTAJE | 24V ---/~ 50/60 Hz<br>110V ~ 50/60 Hz<br>230V/240V ~ 50/60 Hz |
|-------------------------------------------------------|---------------------------------------------------------------|





# TOWER SECTOR TWS

## TWS X

### 1F

MONOLAMPO  
SINGLE FLASH  
SIMPLE ECLAT  
EINZELBLITZ  
UN SOLO DESTELLO

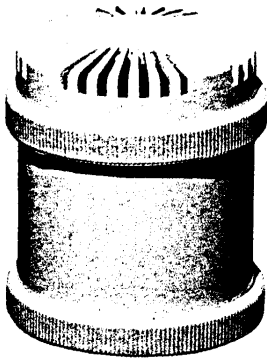
|                    |            |             |     |             |     |     |     |
|--------------------|------------|-------------|-----|-------------|-----|-----|-----|
| XENON 2J<br>LRX 2J | V $\equiv$ | -           | 24  | -           | -   | -   | -   |
|                    | V $\sim$   | -           | 24  | -           | 110 | 230 | 240 |
|                    | mA         | -           | 280 | -           | 48  | 48  | 55  |
|                    | Cd(p)      | -           | 200 | -           | 80  | 200 | 240 |
| F/m                |            | 65 $\pm$ 10 |     | 90 $\pm$ 20 |     |     |     |

|                                                                                                                                               |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| DURATA DEL TUBO ALLO XENO - DURATION OF THE XENON TUBE<br>DUREE DU TUBE AU XENON - DAUER DES ENTLADUNGSRÖHRES -<br>DURACIÓN DEL TUBO DE XENON | 4.000 h.~ |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|

| CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES<br>TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS                                                                                       |             |                                                                                           |          |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------|----------|-------------------------------------------------------|
| MATERIALI - MATERIALS - MATERIAUX - MATERIALIEN - MATERIALES                                                                                                                                                                    |             |                                                                                           |          |                                                       |
| CUPOLA<br>LENS<br>DOME<br>HAUBE<br>CÚPULA                                                                                                                                                                                       | PC          |                                                                                           |          |                                                       |
| SEPARATORE DI LUCE, PORTALAMPADA E GHIERA<br>LIGHT SEPARATOR, LAMPHOLDER AND LOCKRING<br>SEPARATEUR DE LUMIERE, DOUILLE ET COLLIER<br>LICHTABSCHNEIDER, LAMPENFASSUNG UND NUTMUTTER<br>SEPARADOR DE LUZ, PORTA-LÁMPARA Y VIROLA | PC          | GRIGIO<br>GREY<br>GRIS<br>GRAU<br>GRIS                                                    | RAL 7035 | NERO<br>BLACK<br>NOIR<br>SCHWARZ<br>NEGRO<br>RAL 9005 |
| GUARNIZIONI<br>GASKETS<br>JOINTS<br>DICHTUNGEN<br>JUNTAS                                                                                                                                                                        | EPDM        |                                                                                           |          |                                                       |
| VITI<br>SCREWS<br>VIS<br>SCHRAUBEN<br>TORNILLOS                                                                                                                                                                                 | SCREW PLAST | ACCIAIO ZINCATO<br>ZINC COATED STEEL<br>ACIER ZINGUE<br>VERZINKTER STAHL<br>ACERO CINCADO |          |                                                       |
| CIRCUITI STAMPATI<br>PRINTED CIRCUITS<br>CIRCUITS IMPRIMES<br>PLATINEN<br>CIRCUITOS GRABADOS                                                                                                                                    | FR4         |                                                                                           |          |                                                       |

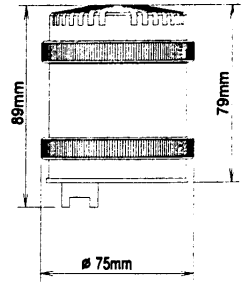


# TOWER SECTOR TWS



## TWS A

MODULO ACUSTICO - ACOUSTIC MODULE -  
ELEMENT ACOUSTIQUE - AKUSTISCHER ELEMENT -  
ELEMENTO ACÚSTICO



kg 0.12

|                                                                                               |                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO                                                      | <input type="checkbox"/> IP 54 12V ÷ 48V $\sim$ / $\sim$ 27718 110V ÷ 240V $\sim$ 27719<br>IP 66 12V ÷ 48V $\sim$ / $\sim$ 27728 110V ÷ 240V $\sim$ 27729            |
|                                                                                               | <input checked="" type="checkbox"/> IP 54 12V ÷ 48V $\sim$ / $\sim$ 27625 110V ÷ 240V $\sim$ 27628<br>IP 66 12V ÷ 48V $\sim$ / $\sim$ 27626 110V ÷ 240V $\sim$ 27629 |
| TIPO D'IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA INDIVIDUAL                                                                            |

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### CARATTERISTICHE MECCANICHE - MECHANICAL CHARACTERISTICS - CARACTERISTIQUES MECANIKES MECHANISCHE EIGENSCHAFTEN - CARACTERÍSTICAS MECANICAS

|                                                                                                                                                       |                 |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|
| GRADO DI PROTEZIONE<br>DEGREE OF PROTECTION<br>DEGRE DE PROTECTION<br>SCHUTZART<br>GRADO DE PROTECCIÓN                                                | IP54<br>IP66    | 78 dB<br>70 dB |
| TEMPERATURA DI FUNZIONAMENTO<br>OPERATING TEMPERATURE<br>TEMPERATURE DE FONCTIONNEMENT<br>BETRIEBSTEMPERATUR<br>TEMPERATURA DE FUNCIONAMIENTO         | -30°C +60°C     |                |
| TEMPERATURA DI MAGAZZINAGGIO<br>STORAGE TEMPERATURE<br>TEMPERATURE DE STOCKAGE<br>LAGERUNGSTEMPERATUR<br>TEMPERATURA DE ALMACENAJE                    | -40°C +85°C     |                |
| COPPIA DI SERRAGGIO GHIERA<br>LOCKRING TIGHTENING TORQUE<br>COUPLE DE SERRAGE AU COLLIER<br>ANZUGSMOMENT DER NUNMUTTER<br>PAR DE APRIETE DE LA VIROLA | Nm 4 (Kgm. 0.4) |                |

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### CARATTERISTICHE ELETTRICHE - ELECTRICAL CHARACTERISTICS - CARACTERISTIQUES ELECTRIQUES ELEKTRISCHE EIGENSCHAFTEN - CARACTERÍSTICAS ELÉCTRICAS

|                                                       |                                                               |
|-------------------------------------------------------|---------------------------------------------------------------|
| TENSIONE<br>VOLTAGE<br>TENSION<br>SPANNUNG<br>VOLTAJE | 12V÷48V $\sim$ / $\sim$ 50/60 Hz<br>110V÷240V $\sim$ 50/60 Hz |
|-------------------------------------------------------|---------------------------------------------------------------|



# TOWER SECTOR TWS

## TWS A

|       |                 |    |    |     |     |     |
|-------|-----------------|----|----|-----|-----|-----|
| V === | 12              | 24 | 48 | -   | -   | -   |
| V ~   | 12              | 24 | 48 | 110 | 230 | 240 |
| mA    | 2.7             | 6  | 13 | 4   | 8   | 8.5 |
| Hz    | 2500 (± 100 Hz) |    |    |     |     |     |

### DIP SWITCH

### IP54

|  |                                                                                                                                                                                                                                                   |                             |                                                                               |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------|
|  | SUONO INTERMITTENTE LENTO - POTENZA RIDOTTA<br>SLOW INTERMITTENT SOUND - REDUCED OUTPUT<br>SON INTERMITTENT LENT - PUISSANCE REDUITE<br>LANGSAM AUSSETZENDE TONFOLGE - REDUZIERTER LEISTUNG<br>SONIDO INTERMITTENTE LENTO - POTENCIA REDUCIDA     | T ON 310 mS<br>T OFF 260 mS | V === 12 24 48 - - -<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 72 77 79 76 78 78 |
|  | SUONO INTERMITTENTE LENTO - MASSIMA POTENZA<br>SLOW INTERMITTENT SOUND - MAXIMUM OUTPUT<br>SON INTERMITTENT LENT - PUISSANCE MAXIMALE<br>LANGSAM AUSSETZENDE TONFOLGE - HÖCHSTE LEISTUNG<br>SONIDO INTERMITTENTE LENTO - POTENCIA MAXIMA          | T ON 310 mS<br>T OFF 260 mS | V === 12 24 48 - - -<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 77 84 86 81 85 85 |
|  | SUONO INTERMITTENTE VELOCE - POTENZA RIDOTTA<br>FAST INTERMITTENT SOUND - REDUCED OUTPUT<br>SON INTERMITTENT RAPIDE - PUISSANCE REDUITE<br>SCHNELL AUSSETZENDE TONFOLGE - REDUZIERTER LEISTUNG<br>SONIDO INTERMITTENTE RAPIDO - POTENCIA REDUCIDA | T ON 70 mS<br>T OFF 50 mS   | V === 12 24 48 - - -<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 74 79 81 76 78 79 |
|  | SUONO INTERMITTENTE VELOCE - MASSIMA POTENZA<br>FAST INTERMITTENT SOUND - MAXIMUM OUTPUT<br>SON INTERMITTENT RAPIDE - PUISSANCE MAXIMALE<br>SCHNELL AUSSETZENDE TONFOLGE - HÖCHSTE LEISTUNG<br>SONIDO INTERMITTENTE RAPIDO - POTENCIA MAXIMA      | T ON 70 mS<br>T OFF 50 mS   | V === 12 24 48 - - -<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 78 85 87 81 85 85 |
|  | SUONO FISSO - POTENZA RIDOTTA<br>CONTINUOUS SOUND - REDUCED OUTPUT<br>SON CONTINU - PUISSANCE REDUITE<br>DAUER-TONFOLGE - REDUZIERTER LEISTUNG<br>SONIDO FIJO - POTENCIA REDUCIDA                                                                 | -                           | V === 12 24 48 - - -<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 75 81 83 75 80 81 |
|  | SUONO FISSO - MASSIMA POTENZA<br>CONTINUOUS SOUND - MAXIMUM OUTPUT<br>SON CONTINU - PUISSANCE MAXIMALE<br>DAUER-TONFOLGE - HÖCHSTE LEISTUNG<br>SONIDO FIJO - POTENCIA MAXIMA                                                                      | -                           | V === 12 24 48 - - -<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 79 85 89 81 86 87 |

IP66 = -8dB

|                                                                                                              |        |
|--------------------------------------------------------------------------------------------------------------|--------|
| FUSIBILE DI PROTEZIONE - PROTECTION FUSE - FUSIBLE DE SECURITE -<br>SCHUTZ-SICHERUNG - FUSIBLE DE PROTECCIÓN | 5 x 20 |
|--------------------------------------------------------------------------------------------------------------|--------|

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### MATERIALI - MATERIALS - MATERIAUX - MATERIALIEN - MATERIALES

|                                                                                                        |                                                    |                                                                                           |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------|
| CORPO E GHIERA<br>HOUSING AND LOCKRING<br>BOITIER ET COLLIER<br>GEHÄUSE UND NUTMUTTER<br>CAJA Y VIROLA | GRIGIO<br>GREY<br>PC GRIS RAL 7035<br>GRAU<br>GRIS | NERO<br>BLACK<br>NOIR RAL 9005<br>SCHWARZ<br>NEGRO                                        |
| GUARNIZIONI<br>GASKETS<br>JOINTS<br>DICHTUNGEN<br>JUNTAS                                               | EPDM                                               |                                                                                           |
| VITI<br>SCREWS<br>VIS<br>SCHRAUBEN<br>TORNILLOS                                                        | SCREW PLAST                                        | ACCIAIO ZINCATO<br>ZINC COATED STEEL<br>ACIER ZINGUE<br>VERZINKTER STAHL<br>ACERO CINCADO |
| CIRCUITI STAMPATI<br>PRINTED CIRCUITS<br>CIRCUITS IMPRIMES<br>PLATINEN<br>CIRCUITOS GRABADOS           | FR4                                                |                                                                                           |



# POWER SECTOR TWS

**TWS A**

|       |                 |    |    |     |     |     |
|-------|-----------------|----|----|-----|-----|-----|
| V === | 12              | 24 | 48 | —   | —   | —   |
| V ~   | 12              | 24 | 48 | 110 | 230 | 240 |
| mA    | 2.7             | 6  | 13 | 4   | 8   | 8.5 |
| Hz    | 2500 (± 100 Hz) |    |    |     |     |     |

## DIP SWITCH

## IP54

|  |                                                                                                                                                                                                                                                   |                             |                                                                               |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------|
|  | SUONO INTERMITTENTE LENTO - POTENZA RIDOTTA<br>SLOW INTERMITTENT SOUND - REDUCED OUTPUT<br>SON INTERMITTENT LENT - PUISSANCE REDUITE<br>LANGSAM AUSSETZENDE TONFOLGE - REDUZIERTER LEISTUNG<br>SONIDO INTERMITTENTE LENTO - POTENCIA REDUCIDA     | T ON 310 mS<br>T OFF 260 mS | V === 12 24 48 — — —<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 72 77 79 76 78 78 |
|  | SUONO INTERMITTENTE LENTO - MASSIMA POTENZA<br>SLOW INTERMITTENT SOUND - MAXIMUM OUTPUT<br>SON INTERMITTENT LENT - PUISSANCE MAXIMALE<br>LANGSAM AUSSETZENDE TONFOLGE - HÖCHSTE LEISTUNG<br>SONIDO INTERMITTENTE LENTO - POTENCIA MAXIMA          | T ON 310 mS<br>T OFF 260 mS | V === 12 24 48 — — —<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 77 84 86 81 85 85 |
|  | SUONO INTERMITTENTE VELOCE - POTENZA RIDOTTA<br>FAST INTERMITTENT SOUND - REDUCED OUTPUT<br>SON INTERMITTENT RAPIDE - PUISSANCE REDUITE<br>SCHNELL AUSSETZENDE TONFOLGE - REDUZIERTER LEISTUNG<br>SONIDO INTERMITTENTE RAPIDO - POTENCIA REDUCIDA | T ON 70 mS<br>T OFF 50 mS   | V === 12 24 48 — — —<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 74 79 81 76 78 79 |
|  | SUONO INTERMITTENTE VELOCE - MASSIMA POTENZA<br>FAST INTERMITTENT SOUND - MAXIMUM OUTPUT<br>SON INTERMITTENT RAPIDE - PUISSANCE MAXIMALE<br>SCHNELL AUSSETZENDE TONFOLGE - HÖCHSTE LEISTUNG<br>SONIDO INTERMITTENTE RAPIDO - POTENCIA MAXIMA      | T ON 70 mS<br>T OFF 50 mS   | V === 12 24 48 — — —<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 78 85 87 81 85 85 |
|  | SUONO FISSO - POTENZA RIDOTTA<br>CONTINUOUS SOUND - REDUCED OUTPUT<br>SON CONTINU - PUISSANCE REDUITE<br>DAUER-TONFOLGE - REDUZIERTER LEISTUNG<br>SONIDO FIJO - POTENCIA REDUCIDA                                                                 | —                           | V === 12 24 48 — — —<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 75 81 83 75 80 81 |
|  | SUONO FISSO - MASSIMA POTENZA<br>CONTINUOUS SOUND - MAXIMUM OUTPUT<br>SON CONTINU - PUISSANCE MAXIMALE<br>DAUER-TONFOLGE - HÖCHSTE LEISTUNG<br>SONIDO FIJO - POTENCIA MAXIMA                                                                      | —                           | V === 12 24 48 — — —<br>V ~ 12 24 48 110 230 240<br>dB(A)1m 79 85 89 81 86 87 |

IP66 = -8dB

|                                                                                                              |        |
|--------------------------------------------------------------------------------------------------------------|--------|
| FUSIBILE DI PROTEZIONE - PROTECTION FUSE - FUSIBLE DE SECURITE -<br>SCHUTZ-SICHERUNG - FUSIBLE DE PROTECCIÓN | 5 x 20 |
|--------------------------------------------------------------------------------------------------------------|--------|

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

### MATERIALI - MATERIALS - MATERIAUX - MATERIALIEN - MATERIALES

|                                                                                                        |                                                    |                                                                                           |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------|
| CORPO E GHIERA<br>HOUSING AND LOCKRING<br>BOITIER ET COLLIER<br>GEHÄUSE UND NUTMUTTER<br>CAJA Y VIROLA | GRIGIO<br>GREY<br>PC GRIS RAL 7035<br>GRAU<br>GRIS | NERO<br>BLACK<br>NOIR RAL 9005<br>SCHWARZ<br>NEGRO                                        |
| GUARNIZIONI<br>GASKETS<br>JOINTS<br>DICHTUNGEN<br>JUNTAS                                               | EPDM                                               |                                                                                           |
| VITI<br>SCREWS<br>VIS<br>SCHRAUBEN<br>TORNILLOS                                                        | SCREW PLAST                                        | ACCIAIO ZINCATO<br>ZINC COATED STEEL<br>ACIER ZINGUE<br>VERZINKTER STAHL<br>ACERO CINCADO |
| CIRCUITI STAMPATI<br>PRINTED CIRCUITS<br>CIRCUITS IMPRIMES<br>PLATINEN<br>CIRCUITOS GRABADOS           | FR4                                                |                                                                                           |

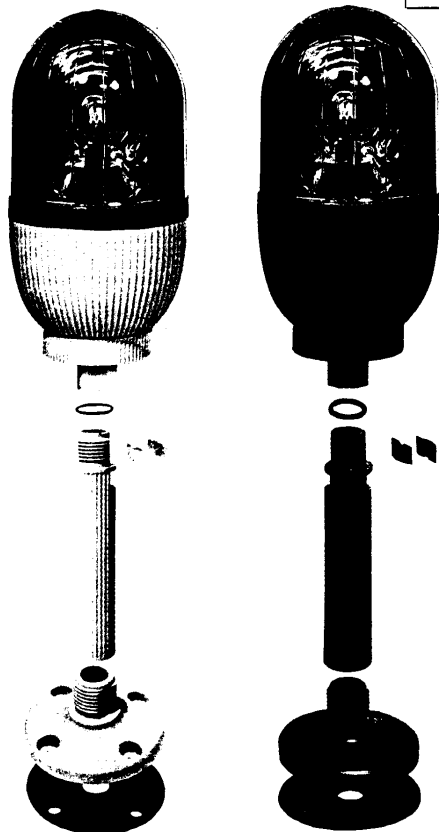


# TOWER SECTOR TWS

## BABYROT

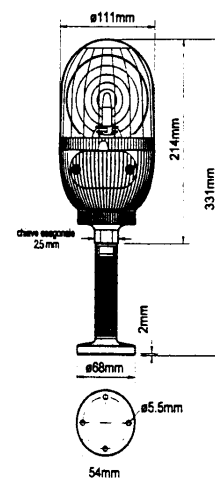
LUCE ROTANTE - ROTATING BEACON - FEU TOURNANT - RUNDUMKENNLEUCHTE - LUZ ROTATIVA

|                                                                    |                            |                                                                                        |                     |          |                          |
|--------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------|---------------------|----------|--------------------------|
| Ba9s<br>H-20W : V 24 $\sim$ -110 $\sim$ -230 $\sim$ ( $\pm 10\%$ ) |                            | Ba9s<br>10W : V 12 $\sim$ -24 $\sim$ -48 $\sim$ -110 $\sim$ -230 $\sim$ ( $\pm 10\%$ ) |                     | $\equiv$ | $\sim$ 50/60 Hz          |
| IP 65                                                              | $^{\circ}\text{C}$ -30 +60 | On $\infty$                                                                            | r.p.m. 160 $\pm$ 30 |          | <input type="checkbox"/> |
|                                                                    |                            | 2                                                                                      | 4                   | 5        | 6                        |
|                                                                    |                            | PC                                                                                     |                     |          |                          |



|  |            |   |      |   |      |      |
|--|------------|---|------|---|------|------|
|  | V $\equiv$ | - | 24   | - | -    | -    |
|  | V $\sim$   | - | -    | - | 110  | 230  |
|  | mA         | - | 510  | - | 200  | 100  |
|  | Cd (p)     | - | 2000 | - | 2000 | 2000 |

|  |            |     |     |     |     |     |
|--|------------|-----|-----|-----|-----|-----|
|  | V $\equiv$ | -   | 24  | -   | -   | -   |
|  | V $\sim$   | 12  | -   | 48  | 110 | 230 |
|  | mA         | 820 | 500 | 280 | 140 | 73  |
|  | Cd (p)     | 300 | 350 | 280 | 200 | 120 |



H 20W Kg. 0,97  
10W Kg. 0,75

### CODICI - CODES - CODES - KODES - CODIGOS

| VERSIONE GRIGIA<br>GREY VERSION<br>VERSION GRISE<br>GRAUE AUSFÜHRUNG<br>VERSIÓN GRISA |  | VERSIONE NERA<br>BLACK VERSION<br>VERSION NOIRE<br>SCHWARZE AUSFÜHRUNG<br>VERSIÓN NEGRA |  |
|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|--|
| <b>Ba9s 20W</b>                                                                       |  | <b>Ba9s 10W</b>                                                                         |  |
| 24V $\sim$                                                                            |  | 24V $\sim$                                                                              |  |
| <input type="checkbox"/> 26501                                                        |  | <input type="checkbox"/> 26538                                                          |  |
| <input type="checkbox"/> 26502                                                        |  | <input type="checkbox"/> 26539                                                          |  |
| <input type="checkbox"/> 26503                                                        |  | <input type="checkbox"/> 26540                                                          |  |
| <input type="checkbox"/> 26504                                                        |  | <input type="checkbox"/> 26541                                                          |  |
| <input type="checkbox"/> 26505                                                        |  | <input type="checkbox"/> 26542                                                          |  |
| <input type="checkbox"/> 27506                                                        |  | <input type="checkbox"/> 26543                                                          |  |
| <b>TOROIDALE - TOROIDAL - TOROIDFÖRMIG</b>                                            |  | <b>TOROIDALE - TOROIDAL - TOROIDFÖRMIG</b>                                              |  |
| 110V $\sim$                                                                           |  | 110V $\sim$                                                                             |  |
| <input type="checkbox"/> 26508                                                        |  | <input type="checkbox"/> 26515                                                          |  |
| <input type="checkbox"/> 26509                                                        |  | <input type="checkbox"/> 26516                                                          |  |
| <input type="checkbox"/> 26510                                                        |  | <input type="checkbox"/> 26517                                                          |  |
| <input type="checkbox"/> 26511                                                        |  | <input type="checkbox"/> 26518                                                          |  |
| <input type="checkbox"/> 26512                                                        |  | <input type="checkbox"/> 26519                                                          |  |
| <input type="checkbox"/> 26513                                                        |  | <input type="checkbox"/> 26520                                                          |  |
| <b>Ba9s 10W</b>                                                                       |  | <b>Ba9s 10W</b>                                                                         |  |
| 12V $\sim$                                                                            |  | 12V $\sim$                                                                              |  |
| <input type="checkbox"/> 26530                                                        |  | <input type="checkbox"/> 26546                                                          |  |
| <input type="checkbox"/> 26531                                                        |  | <input type="checkbox"/> 26547                                                          |  |
| <input type="checkbox"/> 26532                                                        |  | <input type="checkbox"/> 26548                                                          |  |
| <input type="checkbox"/> 26533                                                        |  | <input type="checkbox"/> 26549                                                          |  |
| <input type="checkbox"/> 26534                                                        |  | <input type="checkbox"/> 26550                                                          |  |
| <input type="checkbox"/> 26535                                                        |  | <input type="checkbox"/> 26551                                                          |  |
| <b>Ba9s 10W</b>                                                                       |  | <b>Ba9s 10W</b>                                                                         |  |
| 110V $\sim$                                                                           |  | 110V $\sim$                                                                             |  |
| <input type="checkbox"/> 26554                                                        |  | <input type="checkbox"/> 26562                                                          |  |
| <input type="checkbox"/> 26555                                                        |  | <input type="checkbox"/> 26563                                                          |  |
| <input type="checkbox"/> 26556                                                        |  | <input type="checkbox"/> 26564                                                          |  |
| <input type="checkbox"/> 26557                                                        |  | <input type="checkbox"/> 26565                                                          |  |
| <input type="checkbox"/> 26558                                                        |  | <input type="checkbox"/> 26566                                                          |  |
| <b>Ba9s 10W</b>                                                                       |  | <b>Ba9s 10W</b>                                                                         |  |
| 110V $\sim$                                                                           |  | 110V $\sim$                                                                             |  |
| <input type="checkbox"/> 26607                                                        |  | <input type="checkbox"/> 26613                                                          |  |
| <input type="checkbox"/> 26608                                                        |  | <input type="checkbox"/> 26614                                                          |  |
| <input type="checkbox"/> 26609                                                        |  | <input type="checkbox"/> 26615                                                          |  |
| <input type="checkbox"/> 26610                                                        |  | <input type="checkbox"/> 26616                                                          |  |
| <input type="checkbox"/> 26611                                                        |  | <input type="checkbox"/> 26617                                                          |  |

### CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

COPPIA DI SERRAGGIO AI MORSETTI RACCOMANDATA: Nm 0,5 (Kgm. 0,05)  
TRASMISSIONE A INGRANAGGIO A VITE SENZA FINE  
MOTORE A MAGNETE PERMANENTE  
TRASFORMATORE TOROIDALE H - 20W 110V - 230V  $\sim$   
PARABOLA IN ACCIAIO METALLIZZATO CON CONTRAPPESO DI EQUILIBRATURA  
BASE DISPONIBILE NEI COLORI GRIGIO O NERO (VEDI CODIFICA)  
GUARNIZIONE DI CUPOLA: EPDM NERO  
GUARNIZIONE SPORTELLINO: EPTR NERO  
TIPO D'IMBALLO: SCATOLA SINGOLA

RECOMMENDED TERMINAL TIGHTENING TORQUE: Nm 0,5 (Kgm. 0,05)  
WORM GEAR DRIVE  
PERMANENT MAGNET MOTOR  
TOROIDAL TRANSFORMER H - 20W 110V - 230V  $\sim$   
METALLIZED STEEL REFLECTOR WITH BALANCE COUNTER-WEIGHT  
BASE AVAILABLE IN GREY OR BLACK (SEE CODE NOS.)  
DOME GASKET: BLACK EPDM  
FLAP GASKET: BLACK EPTR  
TYPE OF PACKAGING: SINGLE BOX

COUPLE DE SERRAGE AUX BORNES RECOMMANDE: Nm 0,5 (Kgm 0,05)  
ENTRAÎNEMENT PAR ENGRENAGE A VIS SANS FIN  
MOTEUR A AIMANT PERMANENT  
TRANSFORMATEUR TOROIDAL H - 20W 110V - 230V  $\sim$   
REFLECTEUR EN ACIER METALLISÉ AVEC CONTREPOIDS D'EQUILIBRAGE  
EMBASE DISPONIBLE DANS LES COULEURS GRIS OU NOIRE (VOIR CODES)  
JOINT DU DÔME: EPDM NOIR  
JOINT DU CACHE-BORNIER: EPTR NOIR  
CONDITIONNEMENT: BOÎTE INDIVIDUELLE

EMPFÖHLENER KLEMMEN-ANZUGSMOMENT: Nm 0,5 (Kgm 0,05)  
SCHNECKENANTRIEB  
PERMANENTMAGNET-MOTOR  
TOROIDFORMIGER TRAFO H - 20W 110V - 230V  $\sim$   
METALLISIERTER STAHL-SPIEGEL MIT AUSWUCHT-GEGENGEWICHT  
SOCKEL LIEFERBAR IN GRAU ODER SCHWARZ (SIEHE KODES)  
HAUBENDICHTUNG: AUS EPDM SCHWARZ  
FLÜGEL-DICHTUNG: AUS EPTR SCHWARZ  
VERPACKUNGSTYP: EINZELSCHACHTEL

PAR DE APRIETE RECOMENDADO EN LOS BORNES: Nm 0,5 (Kgm 0,05)  
ARRASTRE POR ENGRANAJE DE TORNILLO SIN FIN  
MOTOR DE IMAN PERMANENTE  
TRANSFORMADOR TOROIDAL H - 20W 110V - 230V  $\sim$   
REFLECTOR DE ACERO METALLIZADO CON CONTRAPESO DE EQUILIBRADO  
BASE DISPONIBLE EN LOS COLORES GRIS O NEGRO (VER CÓDIGOS)  
JUNTA DE LA CÚPULA: EPDM NEGRO  
JUNTA TAPA DE BORNES: EPTR NEGRO  
TIPO DE EMBALAJE: CAJA INDIVIDUAL



# TOWER SECTOR TWS

## BABYROT

### CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

#### CARATTERISTICHE ELETTRICHE - ELECTRICAL CHARACTERISTICS - CARACTERISTIQUES ELECTRIQUES ELEKTRISCHE EIGENSCHAFTEN - CARACTERÍSTICAS ELÉCTRICAS



|                                                       |          |                                                               |                                                                                                |
|-------------------------------------------------------|----------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| TENSIONE<br>VOLTAGE<br>TENSION<br>SPANNUNG<br>VOLTAJE | H 20W    | TOROIDALE<br>TOROIDAL<br>TOROIDAL<br>TOROIDFÖRMIG<br>TOROIDAL | 24V --- / ~ 50/60 Hz<br>110V ~ 50/60 Hz<br>230V ~ 50/60 Hz                                     |
| TENSIONE<br>VOLTAGE<br>TENSION<br>SPANNUNG<br>VOLTAJE | Ba9s 10W |                                                               | 12V ~ 50/60 Hz<br>24V --- / ~ 50/60 Hz<br>48V ~ 50/60 Hz<br>110V ~ 50/60 Hz<br>230V ~ 50/60 Hz |

|                                                                                                                                                                |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| DURATA DELLA LAMPADA A FILAMENTO - DURATION OF THE FILAMENT BULB - DUREE DE L'AMPOULE A FILAMENT - DAUER DER GLÜHLAMPE - DURACIÓN DE LA LÁMPARA DE FILAMENTO   | 1.000 h. ~ |
| DURATA DELLA LAMPADA ALOGENA - DURATION OF THE HALOGENE BULB - DUREE DE L'AMPOULE HALOGENE - DAUER DES HALOGEN-LEUCHTMITTELS - DURACIÓN DE LA LÁMPARA HALÓGENA | 2.000 h. ~ |

### CARATTERISTICHE MECCANICHE - MECHANICAL CHARACTERISTICS - CARACTERISTIQUES MECANIKES MECHANISCHE EIGENSCHAFTEN - CARACTERÍSTICAS MECANICAS

|                                                                                                                                               |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| TEMPERATURA DI FUNZIONAMENTO<br>OPERATING TEMPERATURE<br>TEMPERATURE DE FONCTIONNEMENT<br>BETRIEBSTEMPERATUR<br>TEMPERATURA DE FUNCIONAMIENTO | -30°C +60°C |
| TEMPERATURA DI MAGAZZINAGGIO<br>STOCKAGE TEMPERATURE<br>TEMPERATURE DE STOCKAGE<br>LAGERUNGSTEMPERATUR<br>TEMPERATURA DE ALMACENAJE           | -40°C +85°C |

### MATERIALI - MATERIALS - MATERIAUX - MATERIALIEN - MATERIALES

|                                                                                                                                                                                           |          |                                        |          |                                                                          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|----------|--------------------------------------------------------------------------|----------|
| BASE<br>BASE<br>EMBASE<br>SOCKEL<br>BASE                                                                                                                                                  | PC       | GRIGIO<br>GREY<br>GRIS<br>GRAU<br>GRIS | RAL 7035 | NERO<br>BLACK<br>NOIR<br>SCHWARZ<br>NEGRO                                | RAL 9005 |
| VITI IMPERDIBILI<br>CAPTIVE SCREWS<br>VIS IMPERDABLES<br>UNVERLIERBARE SCHRAUBEN<br>TORNILLOS IMPERDIBLES                                                                                 |          |                                        |          | ACCIAIO INOX<br>STAINLESS STEEL<br>ACIER INOX<br>EDELSTAHL<br>ACERO INOX |          |
| CIRCUITO STABILIZZATORE DI CORRENTE MOTORE<br>VOLTAGE STABILIZER FOR MOTOR<br>CIRCUIT STABILISATEUR DE TENSION MOTEUR<br>SPANNUNGSREGELUNG FÜR MOTOR<br>CIRCUITO ESTABILIZADOR PARA MOTOR | Ba9s 10W |                                        |          | FR4                                                                      |          |



# TOWER SECTOR TWS

## BABYFLASH

LUCE A FLASH - XENON FLASHING BEACON - FEU A ECLATS - BLITZLEUCHTE - LUZ DE DESTELLOS

V 12/24 ~ -110 ~ -230 ~ (±10%)

==

~ 50/60 Hz

Flash/min. 65±10

J 2 - 8

IP 65

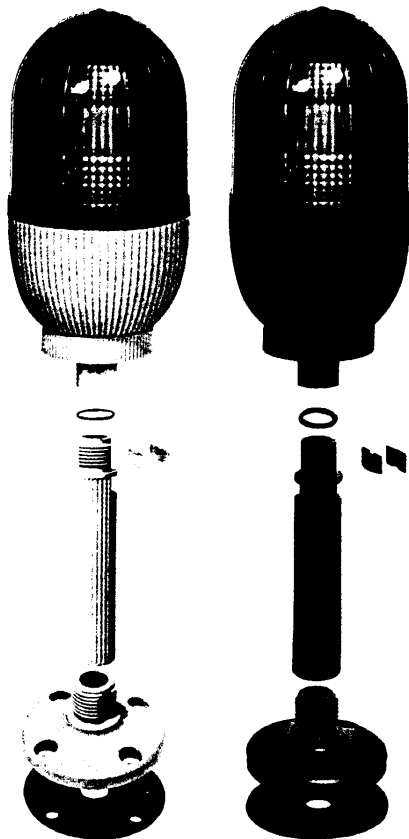
°C -10 +50

On ∞



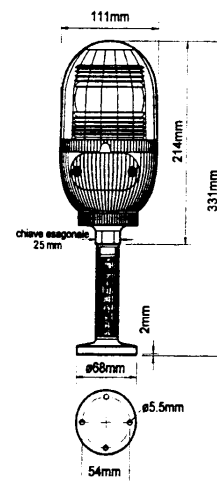
2 4 5 6

PC



|                              |        |       |      |  |      |      |      |
|------------------------------|--------|-------|------|--|------|------|------|
| 1F<br><br>XENON 2J<br>LRX 2J | V ==   | 12/24 |      |  | -    | -    | -    |
|                              | V ~    |       |      |  | 110  | 230  | 240  |
|                              | mA     | 500   | 440  |  | 80   | 42   | 43   |
|                              | Cd (p) | 700   | 1000 |  | 1300 | 1400 | 1450 |

|                              |        |       |     |  |     |     |     |
|------------------------------|--------|-------|-----|--|-----|-----|-----|
| 2F<br><br>XENON 2J<br>LRX 2J | V ==   | 12/24 |     |  | -   | -   | -   |
|                              | V ~    |       |     |  | 110 | 230 | 240 |
|                              | mA     | 470   | 400 |  | 95  | 36  | 37  |
|                              | Cd (p) | 350   | 400 |  | 600 | 500 | 550 |



2J Kg. 0,55

8J Kg. 0,62

### CODICI - CODES - CODES - KODES - CODIGOS

VERSIONE GRIGIA - GREY VERSION - VERSION GRISE - GRAUE AUSFÜHRUNG - VERSIÓN GRISA

|                              |          |        |        |       |       |       |
|------------------------------|----------|--------|--------|-------|-------|-------|
| 1F<br><br>XENON 2J<br>LRX 2J | 12/24V ~ | 110V ~ | 230V ~ | 26701 | 26707 | 26713 |
|                              |          |        |        | 26702 | 26708 | 26714 |
|                              |          |        |        | 26703 | 26709 | 26715 |
|                              |          |        |        | 26704 | 26710 | 26716 |
|                              |          |        |        | 26705 | 26711 | 26717 |
|                              |          |        |        | 26706 | 26712 | 26718 |

|                              |          |        |        |       |       |       |
|------------------------------|----------|--------|--------|-------|-------|-------|
| 2F<br><br>XENON 2J<br>LRX 2J | 12/24V ~ | 110V ~ | 230V ~ | 26721 | 26727 | 26733 |
|                              |          |        |        | 26722 | 26728 | 26734 |
|                              |          |        |        | 26723 | 26729 | 26735 |
|                              |          |        |        | 26724 | 26730 | 26736 |
|                              |          |        |        | 26725 | 26731 | 26737 |
|                              |          |        |        | 26726 | 26732 | 26738 |

|                                          |          |             |       |       |  |
|------------------------------------------|----------|-------------|-------|-------|--|
| 1F/2F/3F/4F<br><br>XENON 8J<br>LRX 6J 2F | 12/24V ~ | 110V/230V ~ | 26655 | 26661 |  |
|                                          |          |             | 26656 | 26662 |  |
|                                          |          |             | 26657 | 26663 |  |
|                                          |          |             | 26658 | 26664 |  |
|                                          |          |             | 26659 | 26665 |  |
|                                          |          |             | 26660 | 26666 |  |

### CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

COPIA DI SERRAGGIO AI MORSETTI RACCOMANDATA: Nm 0,5 (Kgm. 0,05)  
CIRCUITO ELETTRONICO FLASH 2J/8J: FR4  
BASE DISPONIBILE NEI COLORI GRIGIO O NERO (VEDI CODIFICA)  
LENTE DI FRESNEL: PC NEUTRO  
GUARNIZIONE DI CUPOLA: EPDM NERO  
GUARNIZIONE SPORTELLINO: EPTR NERO  
DIP-SWITCH PER LA SELEZIONE 1F/2F/3F/4F (SOLO 8J)  
TIPO D'IMBALLO: SCATOLA SINGOLA

RECOMMENDED TERMINAL TIGHTENING TORQUE: Nm 0,5 (Kgm. 0,05)  
ELECTRONIC CIRCUIT 2J/8J: FR4 (XENON)  
BASE AVAILABLE IN GREY OR BLACK (SEE CODE NOS.)  
FRESNEL LENS: CLEAR PC  
DOME GASKET: BLACK EPDM  
FLAP GASKET: BLACK EPTR  
SELECTION DIP SWITCH 1F/2F/3F/4F (8J ONLY)  
TYPE OF PACKAGING: SINGLE BOX

COUPLE DE SERRAGE AUX BORNES RECOMMANDE: Nm 0,5 (Kgm 0,05)  
CIRCUIT ELECTRONIQUE XENON 2J/8J: FR4  
EMBASE DISPONIBLE DANS LES COULEURS GRISSE OU NOIRE (VOIR CODES)  
LENTILLE DE FRESNEL: PC NEUTRE  
JOINT DU DÔME: EPDM NOIR  
JOINT DU CACHE-BORNIER: EPTR NOIR  
DIP-SWITCH POUR LA SELECTION 1F/2F/3F/4F (POUR 8J SEULEMENT)  
CONDITIONNEMENT: BOITE INDIVIDUELLE

EMPFOHLENER KLEMMEN-ANZUGSMOMENT: Nm 0,5 (Kgm 0,05)  
BLITZ-SCHALTKEIS 2J/8J: FR4  
SOCKEL LIEFERBAR IN GRAU ODER SCHWARZ (SIEHE KODES)  
FRESNELLINSE: AUS PC KLAR  
HAUBENDICHTUNG: AUS EPDM SCHWARZ  
FLÜGEL-DICHTUNG: AUS EPTR SCHWARZ  
DIP-SWITCH FÜR AUSWAHL 1F/2F/3F/4F (NUR 8J)  
VERPACKUNGSTYP: EINZELSCHACHTEL

PAR DE APRIETE RECOMENDADO EN LOS BORNES: Nm 0,5 (Kgm 0,05)  
CIRCUITO ELECTRONICO DE DESTELLO 2J/8J: FR4  
BASE DISPONIBLE EN LOS COLORES GRIS O NEGRO (VER CÓDIGOS)  
LENTE DE FRESNEL: PC NEUTRO  
JUNTA DE LA CÚPULA: EPDM NEGRO  
JUNTA TAPA DE BORNES: EPTR NEGRO  
DIP-SWITCH PARA LA SELECCIÓN 1F/2F/3F/4F (SÓLO 8J)  
TIPO DE EMBALAJE: CAJA INDIVIDUAL

VERSIONE NERA - BLACK VERSION - VERSION NOIRE - SCHWARZE AUSFÜHRUNG - VERSIÓN NEGRA

|                              |          |        |        |       |       |       |
|------------------------------|----------|--------|--------|-------|-------|-------|
| 1F<br><br>XENON 2J<br>LRX 2J | 12/24V ~ | 110V ~ | 230V ~ | 26741 | 26747 | 26753 |
|                              |          |        |        | 26742 | 26748 | 26754 |
|                              |          |        |        | 26743 | 26749 | 26755 |
|                              |          |        |        | 26744 | 26750 | 26756 |
|                              |          |        |        | 26745 | 26751 | 26757 |
|                              |          |        |        | 26746 | 26752 | 26758 |

|                              |          |        |        |       |       |       |
|------------------------------|----------|--------|--------|-------|-------|-------|
| 2F<br><br>XENON 2J<br>LRX 2J | 12/24V ~ | 110V ~ | 230V ~ | 26761 | 26767 | 26773 |
|                              |          |        |        | 26762 | 26768 | 26774 |
|                              |          |        |        | 26763 | 26769 | 26775 |
|                              |          |        |        | 26764 | 26770 | 26776 |
|                              |          |        |        | 26765 | 26771 | 26777 |
|                              |          |        |        | 26766 | 26772 | 26778 |

|                                          |          |             |       |       |  |
|------------------------------------------|----------|-------------|-------|-------|--|
| 1F/2F/3F/4F<br><br>XENON 8J<br>LRX 6J 2F | 12/24V ~ | 110V/230V ~ | 26673 | 26679 |  |
|                                          |          |             | 26674 | 26680 |  |
|                                          |          |             | 26675 | 26681 |  |
|                                          |          |             | 26676 | 26682 |  |
|                                          |          |             | 26677 | 26683 |  |
|                                          |          |             |       |       |  |



**TOWER SECTOR  
TWS**

# BABYLAMP BABYLAMP F

LUCE LAMPEGGIANTE E FISSA - FLASHING AND CONTINUOUS LIGHT BEACON - FEU CLIGNOTANT ET A LUMIERE FIXE - BLINK UND DAUERLEUCHTE - LUZ INTERMITENTE Y FIJA

Ba 15d 25W: V 12÷48 --- - 24÷240 ~ F Ba 15d 25W: V 12~÷240 ~ Ba 15d LD 105 V 12~÷240 ~ --- ~ 50/60 Hz

IP 65

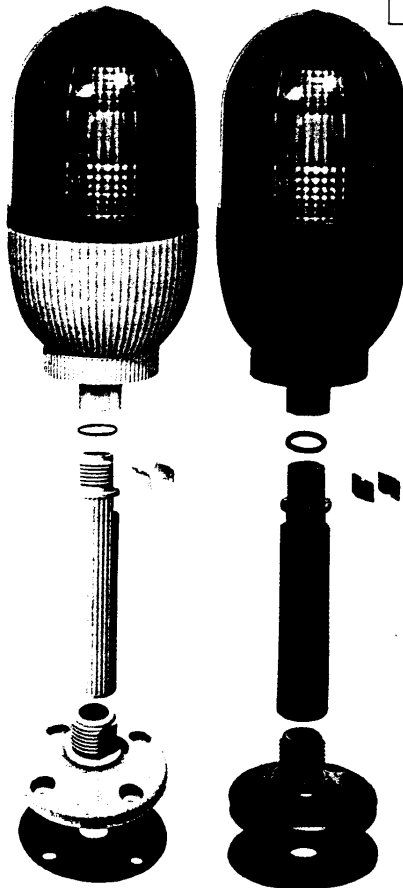
°C -30 +60

On ∞

Flash/min. 110±20



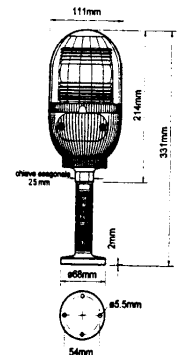
PC



|              |        |     |      |      |      |      |      |
|--------------|--------|-----|------|------|------|------|------|
| Ba15d<br>25W | V ---  | 12  | 24   | 48   | -    | -    | -    |
|              | V ~    | -   | -    | -    | 110  | 230  | 240  |
|              | A      | 1.8 | 0.85 | 0.49 | 0.23 | 0.11 | 0.12 |
|              | Cd (p) | 100 | 70   | 60   | 75   | 75   | 80   |

|                   |        |     |      |      |      |      |      |
|-------------------|--------|-----|------|------|------|------|------|
| F<br>Ba15d<br>25W | V ---  | 12  | 24   | 48   | 110  | 230  | 240  |
|                   | V ~    | -   | -    | -    | -    | -    | -    |
|                   | A      | 1.8 | 0.85 | 0.49 | 0.23 | 0.11 | 0.12 |
|                   | Cd (p) | 100 | 70   | 60   | 75   | 75   | 80   |

|                   |         |      |      |     |      |      |
|-------------------|---------|------|------|-----|------|------|
| LD 105<br>Ba 15 d | V ---   | 12   | 24   | -   | -    | -    |
|                   | V ~     | -    | -    | 110 | 230  | 240  |
|                   | mA      | 20   | 20   | 15  | 18   | 20   |
|                   | mCd(p)* | 1300 | 1300 | 780 | 1150 | 1300 |
| LD 105<br>Ba 15 d | mCd(p)  | 1500 | 1500 | 900 | 1350 | 1500 |
|                   | mCd(p)  | 1300 | 1300 | 780 | 1150 | 1300 |
|                   | mCd(p)  | 1300 | 1300 | 780 | 1150 | 1300 |
|                   | mCd(p)  | 1300 | 1300 | 780 | 1150 | 1300 |



Kg. 0,53

|                       |        |      |      |     |     |     |
|-----------------------|--------|------|------|-----|-----|-----|
| LD 105 EXL<br>Ba 15 d | V ---  | 12   | 24   | -   | -   | -   |
|                       | V ~    | -    | -    | 110 | 230 | 240 |
|                       | mA     | 40   | 40   | -   | -   | -   |
|                       | mCd(p) | 350  | 350  | -   | -   | -   |
| LD 105 EXL<br>Ba 15 d | mCd(p) | 1300 | 1300 | -   | -   | -   |
|                       | mCd(p) | 1300 | 1300 | -   | -   | -   |
|                       | mCd(p) | 1300 | 1300 | -   | -   | -   |
|                       | mCd(p) | 1300 | 1300 | -   | -   | -   |

\* Valore 1 LED  
Value 1 LED  
Valeur 1 LED  
Wert 1 LED  
Valor 1 LED

## CODICI - CODES - CODES - KODES - CODIGOS

VERSIONE GRIGIA  
GREY VERSION  
VERSION GRISE  
GRAUE AUSFÜHRUNG  
VERSIÓN GRISA

VERSIONE NERA  
BLACK VERSION  
VERSION NOIRE  
SCHWARZE AUSFÜHRUNG  
VERSIÓN NEGRA

Ba15d 25W

Ba15d 25W

12÷48V ---  
26630  
26631  
26632  
26633  
26634  
26635  
24V÷240V ~  
26636  
26637  
26638  
26639  
26640  
26641

12÷48V ---  
26642  
26643  
26644  
26645  
26646  
26647  
24V÷240V ~  
26648  
26649  
26650  
26651  
26652  
26653

VERSIONE GRIGIA  
GREY VERSION  
VERSION GRISE  
GRAUE AUSFÜHRUNG  
VERSIÓN GRISA

VERSIONE NERA  
BLACK VERSION  
VERSION NOIRE  
SCHWARZE AUSFÜHRUNG  
VERSIÓN NEGRA

Ba15d 25W

Ba15d 25W

12V÷240V ~  
26801  
26802  
26803  
26804

12V÷240V ~  
26807  
26808  
26809  
26810

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS CARACTERISTIQUES TECHNIQUES TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS

COPPIA DI SERRAGGIO AI MORSETTI RACCOMANDATA: Nm 0,5 (Kgm. 0,05)  
CIRCUITO ELETTRONICO PER LAMPEGGIO: FR4  
BASE DISPONIBILE NEI COLORI GRIGIO O NERO (VEDI CODIFICA)  
LAMPADA A FILAMENTO Ba 15d 25W  
LENTE DI FRESNEL: PC NEUTRO  
GUARNIZIONE DI CUPOLA: EPDM NERO  
GUARNIZIONE SPORTELLINO: EPTR NERO  
DISCO SUPPORTO PORTALAMPADA E SUPPORTO CIRCUITO: PC GRIGIO  
TIPO D'IMBALLO: SCATOLA SINGOLA

RECOMMENDED TERMINAL TIGHTENING TORQUE: Nm 0,5 (Kgm. 0,05)  
ELECTRONIC CIRCUIT: FR4 (BLINKING)  
BASE AVAILABLE IN GREY OR BLACK (SEE CODE NOS.)  
FILAMENT BULB Ba 15d 25W  
FRESNEL LENS: CLEAR PC  
DOME GASKET: BLACK EPDM  
FLAP GASKET: BLACK EPTR  
DISC SUPPORT FOR BULBHOLDER AND CIRCUIT: GREY PC  
TYPE OF PACKAGING: SINGLE BOX

COUPLE DE SERRAGE AUX BORNES RECOMMANDE: Nm 0,5 (Kgm 0,05)  
CIRCUIT ELECTRONIQUE DE CLIGNOTEMENT: FR4  
EMBASE DISPONIBLE DANS LES COULEURS GRISE OU NOIRE (VOIR CODES)  
AMPOULE A FILAMENT: Ba 15d 25W  
LENTILLE DE FRESNEL: PC NEUTRE  
JOINT DU DOME: EPDM NOIR  
JOINT DU CACHE-BORNIER: EPTR NOIR  
SUPPORT DOUILLE ET SUPPORT CIRCUIT: PC GRIS  
CONDITIONNEMENT: BOITE INDIVIDUELLE

EMPFÖHLENER KLEMMEN-ANZUGSMOMENT: Nm 0,5 (Kgm 0,05)  
BLINK-SCHALTKREIS: FR4  
SOCKEL LIEFERBAR IN GRAU ODER SCHWARZ (SIEHE KODES)  
GLÜHLAMPE Ba 15d 25W  
FRESNELLINSE: AUS PC KLAR  
HAUBENDICHTUNG: AUS EPDM SCHWARZ  
FLÜGEL-DICHTUNG: AUS EPTR SCHWARZ  
HALTESCHEIBE FÜR LAMPENFASSUNG UND HALTEPLATINE: AUS PC GRAU  
VERPACKUNGSTYP: EINZELSCHACHTEL

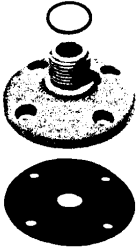
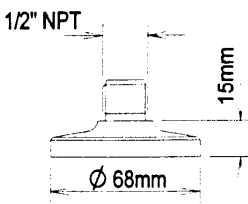
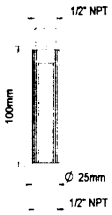
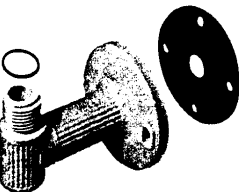
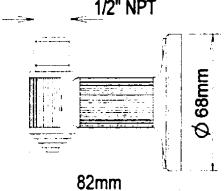
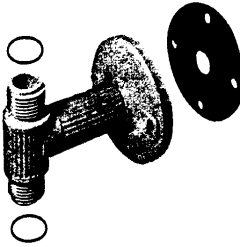
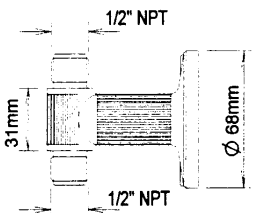
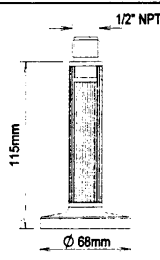
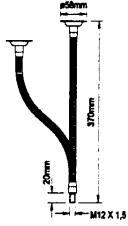
PAR DE APRIETE RECOMENDADO EN LOS BORNES: Nm 0,5 (Kgm 0,05)  
CIRCUITO ELECTRONICO DE INTERMITENCIA: FR4  
BASE DISPONIBLE EN LOS COLORES GRIS O NEGRO (VER CODIGOS)  
LAMPARA DE FILAMENTO: Ba 15d 25W  
LENTE DE FRESNEL: PC NEUTRO  
JUNTA DE LA CUPULA: EPDM NEGRO





# TOWER SECTOR TWS

## ACCESSORI - ACCESSORIES - ACCESSOIRES - ZUBEHÖR - ACCESORIOS

|                                                                                     |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|    | <b>TWS BS</b><br><br>CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO<br><br>27760   | BASETTA - con O-Ring e guarnizione di base<br>FOOT - with O-Ring and base gasket<br>SOCLE - avec joint torique et joint de base<br>FUß - mit O-Ring und Sockeldichtung<br>PIE - con OR y junta de base                                                                                                                                                                                                                                                                             | <br><br>kg 0.03   |
|    | <b>TWS PR</b><br><br>CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO<br><br>27761   | PROLUNGA (h. 10 cm. - sovrapponibile) - con O-Ring e due guance a scatto amovibili<br>EXTENSION STEM (h. 10 cm. - stackable) - with O-Ring and two removable snap-shut stoppers<br>RALLONGE (h. 10 cm. - superposable) - avec joint torique et deux bouchons à déclenchement amovibles<br>VERLÄNGERUNG (h.10 cm. - übereinanderlegbar) - mit O-Ring und zwei abnehmbaren Schnapp-Füllstücke<br>PROLONGADOR (h. 10 cm. - sobreponible) - con OR y dos taponcitos a saltos amovibles | <br><br>kg 0.04   |
|   | <b>TWS BP 1</b><br><br>CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO<br><br>27762 | BASE A PARETE 1 FILETTO - con O-Ring e guarnizione di base<br>1 THREAD WALL SUPPORT - with O-Ring and base gasket<br>SUPPORT MURAL A 1 FILET - avec joint torique et joint de base<br>1 GEWINDE-WANDHALTERUNG - mit O-Ring und Sockeldichtung<br>SOPORTE DE PARED DE 1 ROSCA - con OR y junta de base                                                                                                                                                                              | <br><br>kg 0.04  |
|  | <b>TWS BP 2</b><br><br>CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO<br><br>27763 | BASE A PARETE 2 FILETTI - con O-Ring e guarnizione di base<br>2 THREAD WALL SUPPORT - with O-Ring and base gasket<br>SUPPORT MURAL A 2 FILETS - avec joint torique et joint de base<br>2 GEWINDE-WANDHALTERUNG - mit O-Ring und Sockeldichtung<br>SOPORTE DE PARED DE 2 ROSCAS - con OR y junta de base                                                                                                                                                                            | <br><br>kg 0.05 |
|  | <b>TWS KIT</b><br><br>CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO<br><br>27764  | 1 PR + 1 BS - con O-Ring, guarnizione di base e due guance a scatto amovibili<br>1 PR + 1 BS - with O-Ring, base gasket and two removable snap-shut stoppers<br>1 PR + 1 BS - avec joint torique, joint de base et deux bouchons à déclenchement amovibles<br>1 PR + 1 BS - mit O-Ring, Sockeldichtung und zwei abnehmbaren Schnapp-Füllstücke<br>1 PR + 1 BS - con OR, junta de base y dos taponcitos a saltos amovibles                                                          | <br><br>kg 0.07 |
|  | <b>TWS PF2</b><br><br>CODICE<br>CODE<br>CODE<br>KODE<br>CODIGO<br><br>27696  | PROLUNGA FLESSIBILE<br>FLEXIBLE STEM<br>SUPPORT TUBULAIRE FLEXIBLE<br>FLEXIBLES ROHR<br>SOPORTE TUBULAR FLEXIBLE                                                                                                                                                                                                                                                                                                                                                                   | <br><br>kg 0.26 |

|                                                                  |    |                                        |                                           |                                                                                               |                                                                                           |
|------------------------------------------------------------------|----|----------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| MATERIALI<br>MATERIALS<br>MATERIAUX<br>MATERIALIEN<br>MATERIALES | PC | GRIGIO<br>GREY<br>GRIS<br>GRAU<br>GRIS | NERO<br>BLACK<br>NOIR<br>SCHWARZ<br>NEGRO | TIPO D'IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA INDIVIDUAL |
|------------------------------------------------------------------|----|----------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

COPPIA DI SERRAGGIO AI MORSETTI RACCOMANDATA  
RECOMMENDED TERMINAL TIGHTENING TORQUE  
COUPLE DE SERRAGE AUX BORNES RECOMMANDEE  
EMPEOHL ENER KI EMMEN-ANZUGSMOMENT  
Nm 0.5 (Kgm.0.05)

GUARNIZIONI DI BASE E O-RING  
BASE GASKETS AND O-RING  
JOINTS DE BASE ET JOINT TORIQUE  
SOCKEL -DICHTUNGEN UND O-RING  
EPDM



# TOWER SECTOR TWS

## ACCESSORI - ACCESSORIES - ACCESSOIRES - ZUBEHÖR - ACCESORIOS

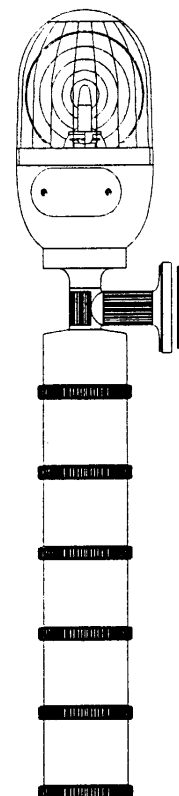
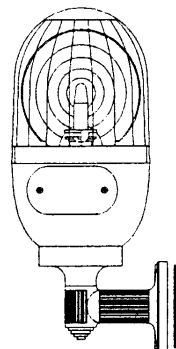
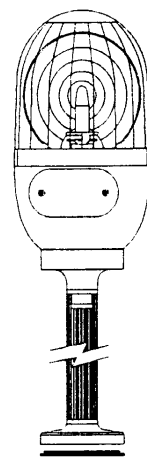
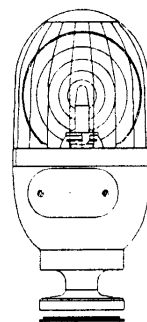
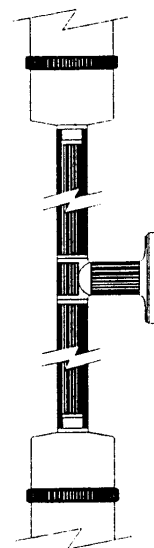
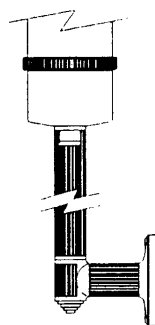
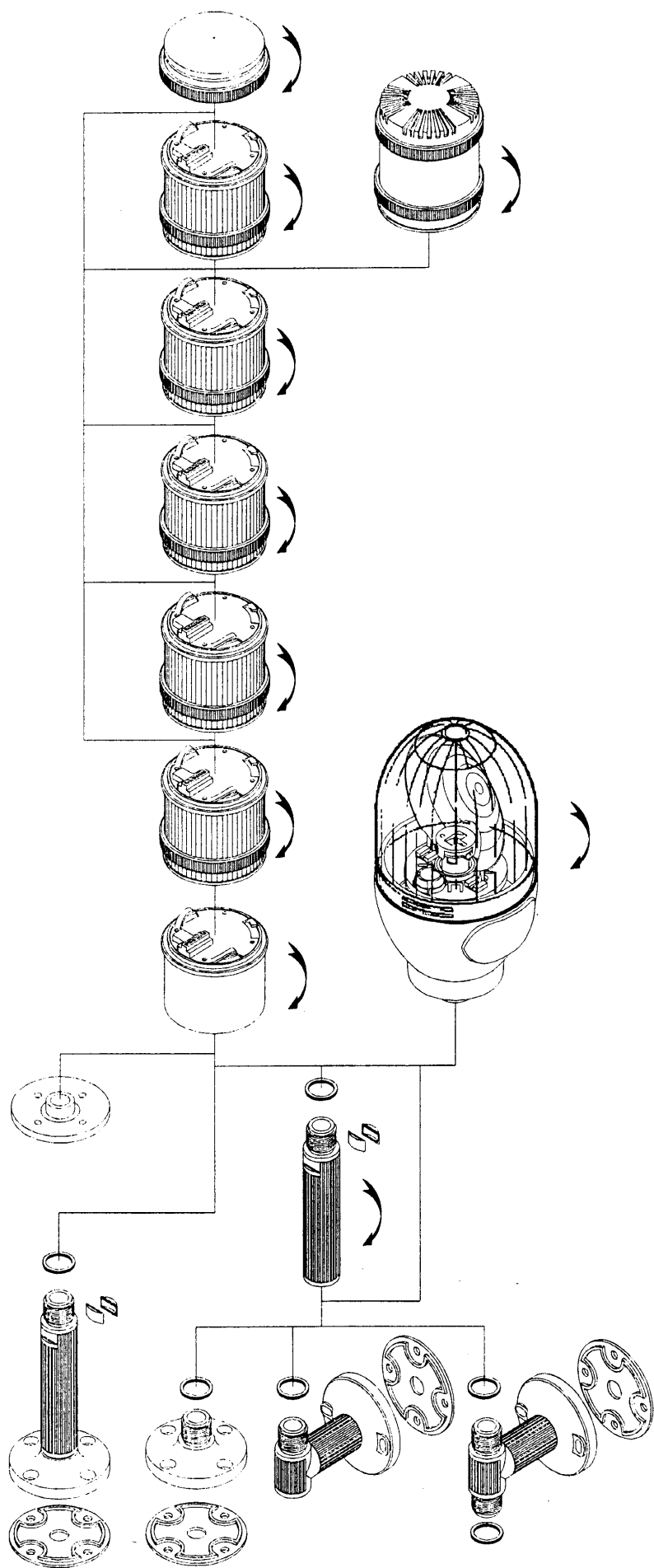
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|    | LAMPADA A FILAMENTO<br>FILAMENT BULB<br>AMPOULE A FILAMENT<br>GLÜHLAMPE<br>LÁMPARA DE FILAMENTO | <b>Ba15d</b><br><b>5/7 W</b>                                   | 12V - 27780<br>24V - 27781<br>48V - 27782<br>130V - 27783<br>240V - 27784                 | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 2000 h. ~    | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA DA 25 PZ.<br>25 PCS. BOX<br>BOITE DE 25 PCES<br>25 STK.GER SCHACHTEL<br>CAJA DE 25 P.ZAS |
|    | LAMPADA A LED<br>LED BULB<br>AMPOULE A LED<br>LED - LEUCHTMITTEL<br>LÁMPARA DE LEDS             | <b>Ba15d</b><br><b>LD 103</b><br><b>24V - 0,3W</b>             | ● 27803<br>○ 27804<br>○ 27805<br>● 27802                                                  | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 100.000 h. ~ | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA SENCILLA          |
|    | LAMPADA A LED<br>LED BULB<br>AMPOULE A LED<br>LED - LEUCHTMITTEL<br>LÁMPARA DE LEDS             | <b>Ba15d</b><br><b>LD 105 Ellisse</b><br><b>24V - 0,3W</b>     | ● 27813<br>○ 27814<br>○ 27815<br>● 27812                                                  | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 100.000 h. ~ | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA SENCILLA          |
|   | LAMPADA A LED<br>LED BULB<br>AMPOULE A LED<br>LED - LEUCHTMITTEL<br>LÁMPARA DE LEDS             | <b>Ba15d</b><br><b>LD 105 Ellisse EXL</b><br><b>24V - 0,7W</b> | ● 27824<br>● 27821                                                                        | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 100.000 h. ~ | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA SENCILLA          |
|  | LAMPADA A FILAMENTO<br>FILAMENT BULB<br>AMPOULE A FILAMENT<br>GLÜHLAMPE<br>LÁMPARA DE FILAMENTO | <b>Ba9s 10W</b>                                                | 12V - 72761<br>24V - 72762<br>48V - 72763<br>110V - 72764<br>230V - 72765<br>240V - 72766 | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 2000 h. ~    | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA SENCILLA          |
|  | LAMPADA ALOGENA<br>HALOGEN BULB<br>AMPOULE HALOGENE<br>HALOGENLAMPE<br>LÁMPARA HÁLOGENA         | <b>Ba9s 20W</b>                                                | 12Vx110Vx230V 72786<br>24V 72787                                                          | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 2000 h. ~    | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA SENCILLA          |
|  | LAMPADA A LED<br>LED BULB<br>AMPOULE A LED<br>LED - LEUCHTMITTEL<br>LÁMPARA DE LEDS             | <b>Ba15d</b><br><b>LD 105</b><br><b>24V - 0,3W</b>             | ● 27883<br>○ 27884<br>○ 27885<br>● 27882                                                  | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 100.000 h. ~ | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA SENCILLA          |
|  | LAMPADA A LED<br>LED BULB<br>AMPOULE A LED<br>LED - LEUCHTMITTEL<br>LÁMPARA DE LEDS             | <b>Ba15d</b><br><b>LD 105 EXL</b><br><b>24V - 0,7W</b>         | ● 27888<br>● 27881                                                                        | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 100.000 h. ~ | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA SINGOLA<br>SINGLE BOX<br>BOITE INDIVIDUELLE<br>EINZELSCHACHTEL<br>CAJA SENCILLA          |
|  | LAMPADA A FILAMENTO<br>FILAMENT BULB<br>AMPOULE A FILAMENT<br>GLÜHLAMPE<br>LÁMPARA DE FILAMENTO | <b>Ba15d S 25W</b>                                             | 12V - 72773<br>24V - 72774<br>48V - 72775<br>110V - 72776<br>230V - 72777<br>240V - 72778 | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 2000 h. ~    | TIPO DI IMBALLO<br>TYPE OF PACKAGING<br>TYPE D'EMBALLAGE<br>VERPACKUNGSTYP<br>TIPO DE EMBALAJE | SCATOLA DA 12 PZ.<br>12 PCS. BOX<br>BOITE DE 12 PCES<br>12 STK.GER SCHACHTEL<br>CAJA DE 12 P.ZAS |

## RICAMBI - SPARE PARTS - PIECES DE RECHANGE - ERSATZTEILE - REPUESTOS

|                                                                                     |                                                                  |               |       |                                                        |           |                                      |                               |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------|-------|--------------------------------------------------------|-----------|--------------------------------------|-------------------------------|
|  | TUBO ALLO XENO<br>XENON TUBE<br>TUBE AU XENON<br>ENTLADUNGSRÖHRE | <b>LRX 2J</b> | 71634 | DURATA<br>DURATION<br>DUREE<br>LEBENSDAUER<br>DURACION | 4000 h. ~ | TIPO DI IMBALLO<br>TYPE OF PACKAGING | SCATOLA SINGOLA<br>SINGLE BOX |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------|-------|--------------------------------------------------------|-----------|--------------------------------------|-------------------------------|

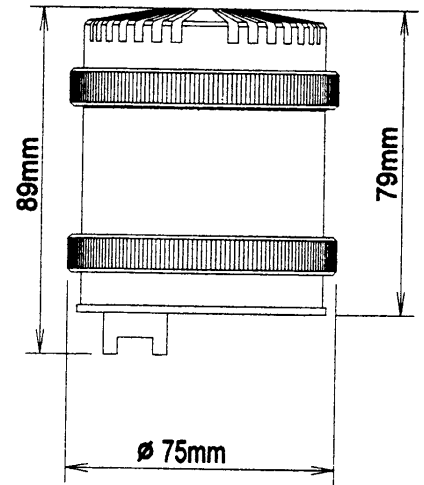
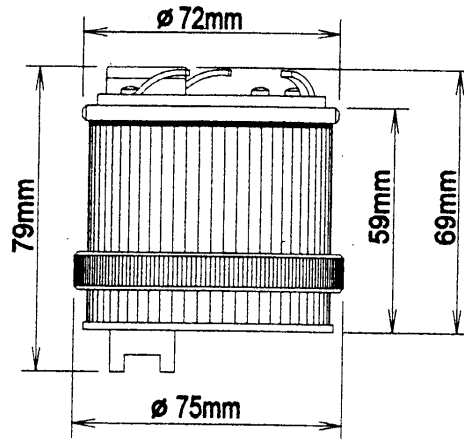
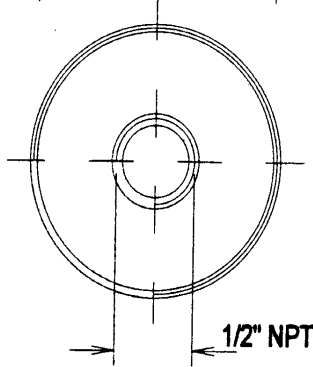
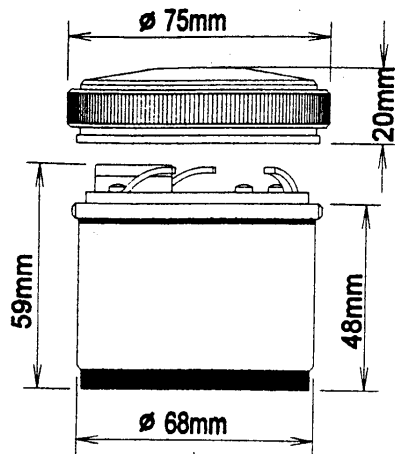


# TOWER SECTOR TWS

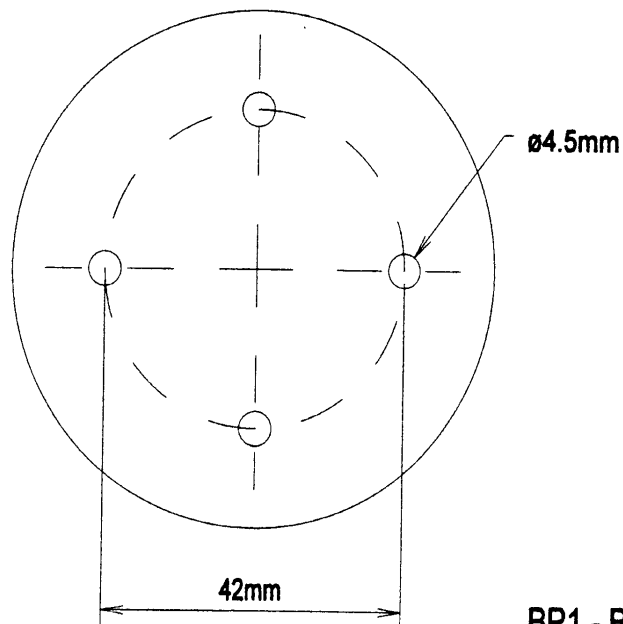




# TOWER SECTOR TWS



B.C.



BS

BP1 - BP2

