

TOWER SECTOR: TWS - MINI TWS

DUE DIAMETRI CON UNA STESSA FILOSOFIA TWO DIAMETERS WITH THE SAME PHILOSOPHY DEUX DIAMETRES UNE SEULE PHILOSOPHIE ZWEI DURCHMESSER MIT DER SELBEN PHILOSOPHIE DOS TAMAÑOS Y UNA ÚNICA FILOSOFÍA



Molteplici possibilità di montaggio offerte dai vari elementi e accessori dotati di filettatura 1/2" NPT.

Multiple installation possibilities are offered by the various modules and the accessories fitted with 1/2" NPT thread.

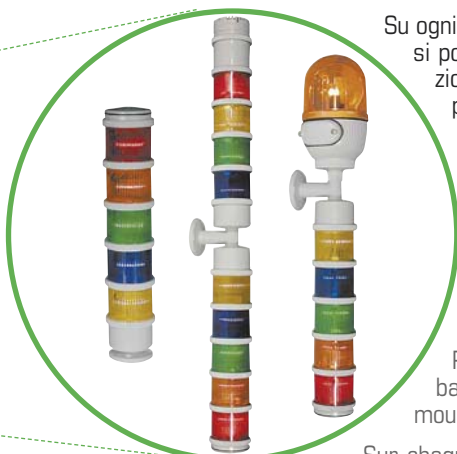
Nombreuses possibilités d'assemblage grâce aux différents éléments et accessoires équipés d'un filetage 1/2" NPT.

Dank der verschiedenen Elementen und Zubehör mit 1/2" NPT Gewinde sind zahlreiche Kombinationen möglich.

Múltiples posibilidades de montaje ofrecidas por los varios elementos y accesorios con rosca 1/2" NPT.



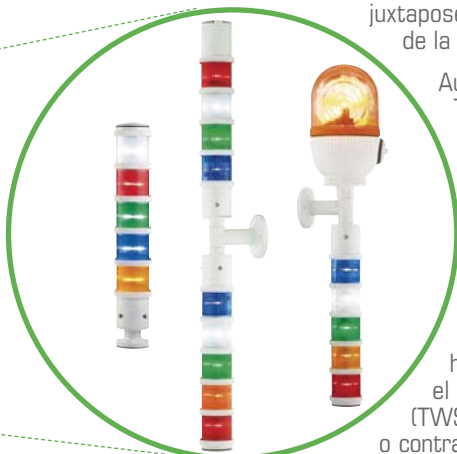
ACCESSORI TWS e MINI TWS TWS AND MINI TWS ACCESSORIES ACCESSOIRES TWS ET MINI TWS ZUBEHÖR TWS UND MINI TWS ACCESORIOS TWS Y MINI TWS



Su ogni modulo di base (TWS B.C. / MINI TWS B.C.) si possono montare fino a 5 elementi di segnalazione. Con l'utilizzo della base a parete con doppia filettatura 1/2" NPT (TWS BP 2) è possibile installare fino a 10 moduli o contrapporre la TWS e la MINI TWS ad una luce della gamma BABYROT, BABYLAMP, BABYFLASH.

On each base (TWS B.C. / MINI TWS B.C.) 5 modules can be assembled. It is possible to install up to 10 modules or to match TWS and MINI TWS with a beacon from the BABYROT, BABYLAMP, BABYFLASH range using the base with 1/2" NPT double thread for wall mounting (TWS BP 2).

Sur chaque élément de base (TWS B.C. / MINI TWS B.C.) on peut installer jusqu'à 5 éléments de signalisation. Avec le support mural à double filetage 1/2" NPT (TWS BP 2), il est possible d'installer jusqu'à 10 éléments ou de juxtaposer la colonne TWS et la MINI TWS à un feu de la gamme BABYROT, BABYLAMP, BABYFLASH.



Auf jedes Anschlußelement (TWS B.C. / MINI TWS B.C.) kann man bis zu 5 Signalelemente montieren. Bei Verwendung der 2-1/2" NPT-Gewinde Wandhalterung (TWS BP 2) ist es auch möglich, bis zu 10 Signalelemente zu installieren oder die TWS und die MINI TWS mit einer Leuchte der Linie BABYROT, BABYLAMP, BABYFLASH zu ergänzen.

Por encima de cada módulo de base (TWS B.C. / MINI TWS B.C.) se pueden instalar hasta 5 elementos de señalización. Al utilizar el montaje de pared de doble rosca 1/2" NPT (TWS BP 2) es posible montar hasta 10 módulos o contraponer la TWS y la MINI TWS a una luz de la gama BABYROT, BABYLAMP, BABYFLASH.



MODULI LUMINOSI TWS E MINI TWS TWS AND MINI TWS LUMINOUS MODULES ELEMENTS LUMINEUX TWS ET MINI TWS LICHTELEMENTE TWS UND MINI TWS ELEMENTOS LUMINOSOS TWS Y MINI TWS

TWS

6 colori disponibili in 5 diverse fonti luminose
6 colours available in 5 different light sources
6 couleurs disponibles en 5 différentes sources lumineuses
6 farben der lichtelemente in 5 verschiedenen lichtquellen
6 colores disponibles en 5 distintas fuentes luminosas

MINI TWS

6 colori disponibili in un'unica fonte luminosa
6 colours available in a unique light source
6 couleurs disponibles en une seule source lumineuse
6 farben der lichtelemente in einer einzigen lichtquelle
6 colores disponibles con una única fuente luminosa

LD MINI TWS F/L

Modulo luminoso comprendente 4 LED "multi-chip" di nuovissima generazione con view-angle di 120° caduno. Ogni singolo LED consta di 4 "chips" che permettono di ottenere un'eccezionale resa luminosa con bassissimo assorbimento di corrente. I LED sono saldati sul circuito stampato verticale e sono quindi particolarmente resistenti alle vibrazioni. Ogni modulo offre la possibilità della funzione luce fissa/luce lampeggiante.

Luminous module comprising 4 new generation "multi-chip" LED with 120° view-angle each chip. Every single LED has 4 "chips" that produce an excellent light output with extremely low power consumption. The LED are welded on a vertical printed circuit and are therefore particularly resistant to vibrations. Each module has a continuous light or flashing light option.

Élément lumineux comprenant 4 LEDs "multi-chip" de nouvelle génération avec angle de visibilité de 120° chacun. Chaque LED individuelle se compose de 4 "chips" qui permettent d'obtenir un excellent rendement lumineux avec très basse consommation de courant. Les LEDs sont soudées sur le circuit imprimé vertical et sont donc particulièrement résistantes aux vibrations. Chaque élément offre la possibilité de la fonction lumière fixe/lumière clignotante.

Lichtelement mit 4 „multi-chip“ LED neuer Generation mit je 120° Gesichtswinkel. Jede LED hat 4 „Chips“, die eine hohe Lichtstärke mit sehr niedrigem Stromverbrauch ermöglichen. Die LED sind auf der senkrechten Platine gelötet und sind daher besonders vibrationsfest. Es ist möglich jedes Element als Blink-/Dauerlicht zu benutzen.

Elemento luminoso provisto de 4 LED "multi-chip" de nueva generación de 120° de visibilidad cada uno. Los LED'S empleados cuentan con 4 "chips" que permiten obtener un excepcional rendimiento luminoso con un bajísimo consumo. Los LED'S están soldados sobre el circuito impreso vertical y, por lo tanto, resultan ser muy resistentes a eventuales vibraciones. Cada módulo ofrece tanto la función de luz fija como la de luz intermitente.



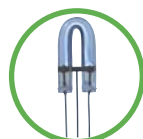
Lampada a filamento

Filament bulb / Ampoule a filament
Glühlampe
Lámpara de filamento



Lampada a Led

Led bulb / Ampoule a Led
Led-Leuchtmittel / Lámpara de Led



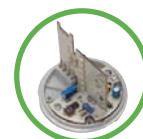
Lampada allo xeno

Xenon tube / Tube au xenon
Xenon-Röhre
Lámpara de xenón



Led integrati

Integrated Led / Led's integrees
Integrierte Led / Led's integrados



Led SMD

SMD Led / Led's SMD
SMD Led / Led's SMD

MODULI ACUSTICI TWS
TWS ACOUSTIC MODULES
ELEMENTS ACOUSTIQUES TWS
AKUSTISCHE ELEMENTE TWS
ELEMENTOS ACÚSTICOS TWS



Modulo piezo elettrico TWS A - 6 suoni
 TWS A piezoelectric module - 6 sounds
 Élément piézo-électrique TWS A - 6 sons
 Piezoelektrisches Element TWS A - 6 Tonfolgen
 Elemento piezoeléctrico TWS A - 6 tonos



Modulo magnetodinamico TWS AM - 32 suoni
 TWS AM magnetodynamic module - 32 sounds
 Élément magnéto-dynamique TWS AM - 32 sons
 Magnetodynamisches Element TWS AM - 32 Tonfolgen
 Elemento magnetodinámico TWS AM - 32 tonos

MODULO ACUSTICO MINI TWS
MINI TWS ACOUSTIC MODULE
ELEMENT ACOUSTIQUE MINI TWS
AKUSTISCHES ELEMENT MINI TWS
ELEMENTO ACÚSTICO MINI TWS



Modulo magnetodinamico MINI TWS A - 1 suono bitonale
 MINI TWS A magnetodynamic module - 1 bitone sound
 Élément magnéto-dynamique MINI TWS A - 1 son bitonal
 Magnetodynamisches Element MINI TWS A - 1 bitonale Tonfolge
 Elemento magnetodinámico MINI TWS A - 1 sonido bitonal

BASE DI CABLAGGIO TWS B.C.
TWS B.C. WIRING BASE
BASE DE CABLAGE TWS B.C.
VERDRÄHTUNGSSOCKEL TWS B.C.
BASE DE CONEXIONADO TWS B.C.



Base di cablaggio completa di cappello e guarnizione di base
 Wiring base complete with cover and base gasket
 Base de câblage complète avec couvercle et joint de base
 Verdrahtungssockel mit Deckel und Sockeldichtung
 Base de conexionado con tapa de cierre y junta de base

BASE DI CABLAGGIO MINI TWS B.C.
MINI TWS B.C. WIRING BASE
BASE DE CABLAGE MINI TWS B.C.
VERDRÄHTUNGSSOCKEL MINI TWS B.C.
BASE DE CONEXIONADO MINI TWS B.C.



Base di cablaggio completa di piede di fissaggio e cappello di chiusura
 Wiring base complete with fixing foot and locking cover
 Base de câblage complète avec socle de fixation et couvercle de fermeture
 Verdrahtungssockel mit Fuß und Deckel
 Base de conexionado con soporte de montaje y tapa de cierre

TOWER SECTOR: TWS - MINI TWS

Tali linee sono state progettate per una sicurezza TOTALE, UNICA e ASSOLUTA. È possibile SOSTITUIRE LA LAMPADA (solo per TWS) O MODIFICARE LA COLONNA, aggiungendo o eliminando moduli, CON L'APPARECCHIO IN TENSIONE in maniera totalmente sicura.

These ranges have been especially designed to ensure TOTAL, UNIQUE and ABSOLUTE safety. It is possible to REPLACE A BULB (for TWS only) or MODIFY THE COLUMN by adding/removing modules in complete SAFETY WITHOUT REMOVING THE POWER SUPPLY.

Ces lignes ont été conçues pour garantir une sécurité TOTALE, UNIQUE et ABSOLUE. Il est possible de REMPLACER L'AMPOULE (pour le TWS seulement) OU DE MODIFIER LA COLONNE, en ajoutant ou en enlevant des éléments tout en conservant L'APPAREIL SOUS TENSION en toute SECURITE.

Diese Linien sind für eine VOLLSTÄNDIGE, ABSOLUTE und EINZIGARTIGE Sicherheit realisiert. Der LEUCHTMITTEL-AUSTAUSCH (nur für TWS) oder DIE ÄNDERUNG DER SIGNALSÄULE, entweder bei Erweiterung oder Entfernung von Elementen, sind GEFÄHRLOS UNTER SPANNUNG möglich.

Esas líneas fueron desarrolladas con el objetivo de ofrecer una seguridad TOTAL, ÚNICA y ABSOLUTA. Se puede REMPLAZAR LA LÁMPARA (sólo para el TWS) O VARIAR LA COLUMNA, añadiendo o eliminando módulos, CON EL APARATO BAJO TENSION, de manera totalmente SEGURA.



Facilmente e velocemente **COMPONIBILE SENZA L'UTILIZZO DI UTENSILI**: si posiziona la scheda di connessione verticale nell'apposita feritoia spingendo verso il basso, in seguito si ruota la ghiera fino al bloccaggio totale.

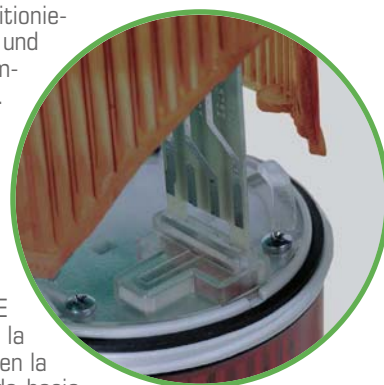
I moduli sono dotati di un sistema antisvitamento con dentini di aggancio tra ghiera e cupola su ogni modulo.

ASSEMBLY is quick and easy WITHOUT THE USE OF TOOLS: place the vertical printed circuit in the slits provided and push downwards twisting the locking until the module has been completely secured. The modules have been made with an unscrewable tooth locking system placed between the locking and the dome on each module.

Facilement et rapidement **COMPOSABLE SANS OUTILS**: on positionne le circuit imprimé vertical dans la fente appropriée en poussant vers le bas et on tourne le collier jusqu'au blocage total. Les éléments sont équipés d'un système anti-dévisage d'encliquetage entre collier et dôme sur chaque élément.

Einfache und schnelle **MONTAGE OHNE WERKZEUG**: Es genügt, die senkrechte Platine auf den dazu bestimmten Einschub zu positionieren, nach unten zu schieben und die Nutmutter bis zum kompletten Verschluß zu drehen. Die Elemente sind mit einem Kupplungszahnsystem zwischen Nutmutter und Haube jedes Elementes versehen.

Fácil y velozmente **COMPONIBILE SIN EMPLEO DE UTENSILIOS**: se posiciona la tarjeta de conexión vertical en la expresa aspirera empujando hacia abajo, tras se rueda la virola roscada hasta el bloqueo total. Los elementos están provistos de un sistema de dientes de enganche entre la virola roscada y la cúpula en cada módulo para garantizar el antidesatornillamiento.



TWS



MINI TWS



IP 65



Costruite con materiali di qualità elevata, sono dotate di guarnizioni e OR per una TOTALE RESISTENZA AGLI AGENTI ATMOSFERICI. Facile manutenzione.

They have been made with high quality material and are supplied with gaskets and "O" Rings ensuring ABSOLUTE RESISTANCE AGAINST ATMOSPHERIC AGENTS. Easy maintenance.

Fabriquéés avec des matériaux de haute qualité, sont équipées de joints et O ring, pour garantir une RESISTANCE TOTALE AUX AGENTS ATMOSPHERIQUES. Entretien facile.

Diese sind mit hochwertigen Materialien hergestellt und sind mit Dichtungen für eine VOLLE WITTERUNGSBESTÄNDIGKEIT versehen. Einfache Wartung.

Construidas con materiales de calidad elevada, están provistas de juntas y OR para una RESISTENCIA TOTAL A LOS AGENTES ATMOSFÉRICOS. Facil manutención.

Il montaggio dei moduli TWS e MINI TWS risulta essere molto semplice: il collegamento elettrico tra i moduli è automatico e contemporaneo all'inserimento meccanico. Per la costruzione di una colonna è indispensabile l'utilizzo del modulo di base (TWS B.C. e MINI TWS B.C.) che permetterà di realizzare i collegamenti elettrici. Su questo verranno inseriti i vari moduli di seguito descritti.

Assembly of the TWS and MINI TWS modules is simple: electrical connection between the modules is automatic and simultaneous on assembling the modules. It is necessary to use the base (TWS B.C. and MINI TWS B.C.) to assemble a column that allows the electrical connection. The various modules, as described in this catalogue, can then be added.

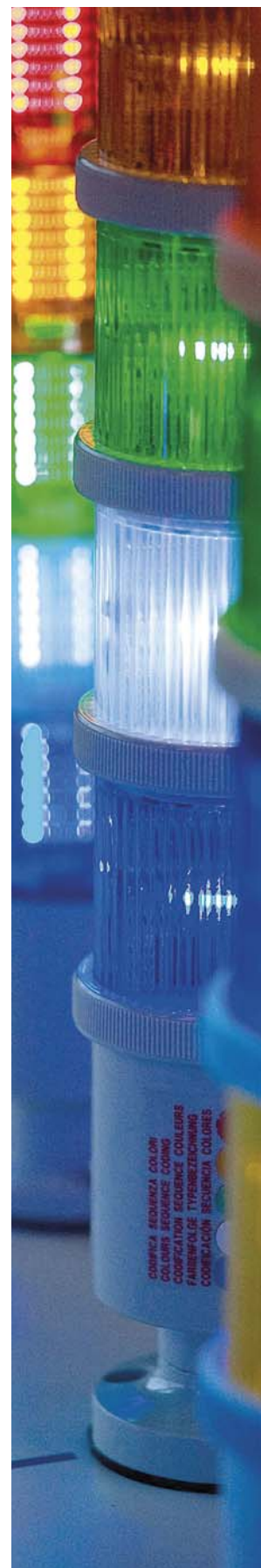
L'assemblage des éléments TWS et MINI TWS est très simple: le raccordement électrique entre les éléments est automatique et le montage mécanique se fait simultanément. Il est indispensable d'utiliser l'élément de base (TWS B.C. et MINI TWS B.C.) pour l'assemblage d'une colonne, celui-ci permettant de réaliser les raccordements électriques. Sur cet élément d'autres éléments peuvent être montés, comme décrit ci-dessous.

Der Zusammenbau der TWS und MINI TWS Elemente ist sehr einfach: Die elektrische Verbindung der Elemente erfolgt automatisch und ist gleichzeitig auch mechanische Verbindung. Für die Montage einer Signalsäule ist das Anschlußelement (TWS B.C. und MINI TWS B.C.) unbedingt erforderlich, um die elektrische Verbindung zu realisieren. Auf dieses Element werden folgende Signalelemente aufeinander gesetzt.

El acoplamiento de los elementos TWS y MINI TWS resulta ser muy simple: la conexión eléctrica entre los módulos se lleva a cabo automática y contemporaneamente al ensamblaje mecánico. La construcción de una columna requiere el empleo del módulo de base (TWS B.C. y MINI TWS B.C.), que permite realizar las conexiones eléctricas. Por encima de éste se insertarán los varios módulos listados a continuación.



| IEC 73 COLORI DEGLI INDICATORI LUMINOSI COLOURS OF THE LUMINOUS MODULES COULEURS DES INDICATEURS LUMINEUX FARBEN DER OPTISCHEN ANZEIGE COLORES DE LOS INDICADORES LUMINOSOS | |
|--|---|
|  | GRAVE PERICOLO AGIRE CON URGENZA SERIOUS DANGER ACT NOW GRAVE DANGER AGIR AVEC URGENCE SCHWERE GEFAHR GRAVE PELIGRO ACTUAR CON URGENCIA |
|  | ATTENZIONE AGIRE CON PRUDENZA WARNING PROCEED WITH CARE ATTENTION AGIR AVEC PRECAUTION ACHTUNG ATENCIÓN ACTUAR CON PRUDENCIA |
|  | CONDIZIONE DI SICUREZZA AUTORIZZAZIONE A PROCEDERE SAFE CONDITION GO AHEAD CONDITION DE SECURITE AUTORISATION DE MISE EN MARCHÉ NORMALER ZUSTAND FORTSCHREITEN CONDICIÓN DE SEGURIDAD AUTORIZACIÓN PARA PROCEDER |
|  | SIGNIFICATO SPECIFICO ATTRIBUITO SECONDO LE NECESSITÀ DEL CASO SPECIFIC MEANING GIVEN DEPENDING ON THE SITUATION SIGNIFICATION SPECIFIQUE SELON LES CAS ZUSTAND, DER EINE DEFINIERTE HANDLUNG ERFORDERT SIGNIFICADO ESPECIFICO ATRIBUIDO SEGÚN LA NECESIDAD DEL CASO |
|  | NESSUN SIGNIFICATO SPECIFICO NO SPECIFIC MEANING PAS DE SIGNIFICATION SPECIFIQUE KEINE BESONDERE BEDEUTUNG NINGÚN SIGNIFICADO ESPECÍFICO |



Tower Sector: TWS

Tower Sector: TWS

| | | | | |
|---------------|-------|----|------------|---------------------------------------|
| V_{max} 240 | IP 65 | PC | °C -30 +60 | autoestinguente self-extinguishing |
|---------------|-------|----|------------|---------------------------------------|

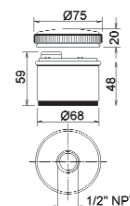
Base di cablaggio + cappello Wiring base + cover



TWS B.C.
TWSBC

⑪

| | | |
|--------|---|-------|
| TWSBC | ■ | 27700 |
| NTWSBC | ■ | 27690 |



Kg. 0,12

Attenzione: indispensabile nella composizione della colonna.
Attention: to assemble the tower this item is essential.

| | | | |
|---|-------------------|-----------------|---------------------------------------|
| $V_{12\div 240}$ $\overline{\sim}$ ($\pm 10\%$) | $\overline{\sim}$ | \sim 50/60 Hz | IP 65 |
| □ °C -30 +60 | On ∞ | 1 2 3 4 5 6 PC | autoestinguente self-extinguishing |

Fornito senza lampada - Supplied without bulb

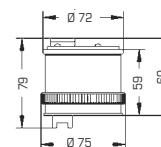
Modulo luminoso luce fissa Continuous light module



TWS F MT
TWSFMT

⑪

| | | | | | | |
|---------------------------|-----------------------|--------------------------|-----|-----|-----|-----|
| BA 15d 5W LR BA 15d 5W | V $\overline{\sim}$ | 12 ÷ 24 ÷ 48 ÷ 110 ÷ 240 | | | | |
| | mA | 430 | 210 | 100 | 35 | 22 |
| | Cd (p) | 4 | 3 | 3 | 2.5 | 2.5 |
| TWSFMT12240DA1 ● 27701 | | NTWSFMT12240DA1 ● 27631 | | | | |
| TWSFMT12240DA2 ● 27702 | | NTWSFMT12240DA2 ● 27632 | | | | |
| TWSFMT12240DA3 ● 27703 | | NTWSFMT12240DA3 ● 27633 | | | | |
| TWSFMT12240DA4 ● 27704 | | NTWSFMT12240DA4 ● 27634 | | | | |
| TWSFMT12240DA5 ● 27705 | | NTWSFMT12240DA5 ● 27635 | | | | |
| TWSFMT12240DA6 ○ 27706 | | NTWSFMT12240DA6 ○ 27636 | | | | |



Kg. 0,09

Possibilità di installazione lampada a LED. LED bulb option.

| | | | | |
|--|-------------------|-----------------|---------------------------------------|-------|
| $V_{12\div 48}$ $\overline{\sim}$ - 24÷240 \sim ($\pm 10\%$) | $\overline{\sim}$ | \sim 50/60 Hz | Flash/min. 110±20 | IP 65 |
| □ °C -30 +60 | On ∞ | 1 2 3 4 5 6 PC | autoestinguente self-extinguishing | |

Fornito senza lampada - Supplied without bulb

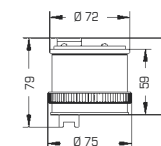
Modulo luminoso luce lampeggiante Flashing luminous module



TWS L MT
TWSLMT

⑪

| | | | | | | |
|---------------------------|-----------------------|------------------------|-----|-----|-----|-----|
| BA 15d 5W LR BA 15d 5W | V $\overline{\sim}$ | 12 ÷ 24 ÷ 48 | | - | - | |
| | V \sim | 24 ÷ 48 ÷ 110 ÷ 240 | | | | |
| | mA | 430 | 210 | 103 | 37 | 27 |
| | Cd (p) | 4 | 3 | 3 | 2.5 | 2.5 |
| TWSLMT1248D1 ● 27711 | | TWSLMT24240A1 ● 27721 | | | | |
| TWSLMT1248D2 ● 27712 | | TWSLMT24240A2 ● 27722 | | | | |
| TWSLMT1248D3 ● 27713 | | TWSLMT24240A3 ● 27723 | | | | |
| TWSLMT1248D4 ● 27714 | | TWSLMT24240A4 ● 27724 | | | | |
| TWSLMT1248D5 ● 27715 | | TWSLMT24240A5 ● 27725 | | | | |
| TWSLMT1248D6 ○ 27716 | | TWSLMT24240A6 ○ 27726 | | | | |
| NTWSLMT1248D1 ● 27641 | | NTWSLMT24240A1 ● 27651 | | | | |
| NTWSLMT1248D2 ● 27642 | | NTWSLMT24240A2 ● 27652 | | | | |
| NTWSLMT1248D3 ● 27643 | | NTWSLMT24240A3 ● 27653 | | | | |
| NTWSLMT1248D4 ● 27644 | | NTWSLMT24240A4 ● 27654 | | | | |
| NTWSLMT1248D5 ● 27645 | | NTWSLMT24240A5 ● 27655 | | | | |
| NTWSLMT1248D6 ○ 27646 | | NTWSLMT24240A6 ○ 27656 | | | | |



Kg. 0,10

Possibilità di installazione lampada a LED. LED bulb option.

Tower Sector: TWS

Tower Sector: TWS

| | | | | | | |
|--|-------------------|----------------------------|-------------|----|-------------|--|
| V 24 $\overline{\sim}$ -110 ~ -240 \sim ($\pm 10\%$) | $\overline{\sim}$ | \sim 50/60 Hz | J 2 | 1F | Flash/min. | 24V: 65 \pm 10 110V - 240V: 90 \pm 20 |
| IP 65 | \square | $^{\circ}\text{C}$ -10 +45 | On ∞ | | 1 2 3 4 5 6 | PC autoestinguente self-extinguishing |

Modulo luminoso a flash Xenon flashing module

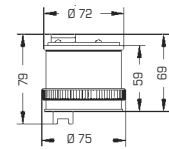


TWS X
TWSX

(11)

| | | | | |
|--|---------------------|-----|-----|-----|
| | V $\overline{\sim}$ | 24 | - | - |
| | V \sim | | 110 | 240 |
| | mA | 280 | 48 | 55 |
| | Cd (p) | 200 | 80 | 240 |

| | | |
|-------------------|-------------------|-------------------|
| TWSX24DA1 • 27731 | TWSX110A1 • 27741 | TWSX240A1 • 27751 |
| TWSX24DA2 • 27732 | TWSX110A2 • 27742 | TWSX240A2 • 27752 |
| TWSX24DA3 • 27733 | TWSX110A3 • 27743 | TWSX240A3 • 27753 |
| TWSX24DA4 • 27734 | TWSX110A4 • 27744 | TWSX240A4 • 27754 |
| TWSX24DA5 • 27735 | TWSX110A5 • 27745 | TWSX240A5 • 27755 |
| TWSX24DA6 ◦ 27736 | TWSX110A6 ◦ 27746 | TWSX240A6 ◦ 27756 |



Kg. 0,13

| | | |
|--------------------|--------------------|--------------------|
| NTWSX24DA1 • 27661 | NTWSX110A1 • 27671 | NTWSX240A1 • 27681 |
| NTWSX24DA2 • 27662 | NTWSX110A2 • 27672 | NTWSX240A2 • 27682 |
| NTWSX24DA3 • 27663 | NTWSX110A3 • 27673 | NTWSX240A3 • 27683 |
| NTWSX24DA4 • 27664 | NTWSX110A4 • 27674 | NTWSX240A4 • 27684 |
| NTWSX24DA5 • 27665 | NTWSX110A5 • 27675 | NTWSX240A5 • 27685 |
| NTWSX24DA6 ◦ 27666 | NTWSX110A6 ◦ 27676 | NTWSX240A6 ◦ 27686 |

| | | | |
|--|-------------------|-----------------|-------------------------------|
| V 12 ÷ 48 $\overline{\sim}$ -110 ÷ 240 \sim ($\pm 10\%$) | $\overline{\sim}$ | \sim 50/60 Hz | On ∞ |
| autoestinguente self-extinguishing | IP 54 | | PC $^{\circ}\text{C}$ -30 +60 |

Modulo acustico piezo elettrico 6 suoni selezionabili da DIP SWITCH Piezoelectric acoustic module 6 sounds can be selected by means of the DIP SWITCH

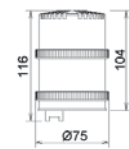


TWS A
TWSA

(11)

| | | | |
|---------------------|----------------------|-----------|----|
| V $\overline{\sim}$ | 12 ÷ 24 ÷ 48 | - | - |
| V \sim | | 110 ÷ 240 | |
| mA | 3 6 13 | 4 | 10 |
| Hz | 2800 (± 100 Hz) | | |

| | | |
|--------------------|---|-------|
| TWSAMT1248DAIP54 | ■ | 27718 |
| TWSAMT110240AIP54 | ■ | 27719 |
| NTWSAMT1248DAIP54 | ■ | 27625 |
| NTWSAMT110240AIP54 | ■ | 27628 |



Kg. 0,13

DIP SWITCH

| | | | | | | | | | | | | |
|--|--|-----------------------------|---------------------|----------------|----------------|------------------|--|---------------------------|---------------------|----------------|----------------|------------------|
| | Suono intermittente lento potenza ridotta Slow intermittent sound reduced output | T ON 310 mS T OFF 260 mS | V $\overline{\sim}$ | 12 24 48 - - | V \sim | 12 24 48 110 240 | Suono intermittente veloce massima potenza Fast intermittent sound maximum output | T ON 70 mS T OFF 50 mS | V $\overline{\sim}$ | 12 24 48 - - | V \sim | 12 24 48 110 240 |
| | Suono intermittente lento massima potenza Slow intermittent sound maximum output | T ON 310 mS T OFF 260 mS | V $\overline{\sim}$ | 12 24 48 - - | V \sim | 12 24 48 110 240 | Suono fisso potenza ridotta Continuous sound reduced output | - | V $\overline{\sim}$ | 12 24 48 - - | V \sim | 12 24 48 110 240 |
| | Suono intermittente veloce potenza ridotta Fast intermittent sound reduced output | T ON 70 mS T OFF 50 mS | V $\overline{\sim}$ | 12 24 48 - - | V \sim | 12 24 48 110 240 | Suono fisso massima potenza Continuous sound maximum output | - | V $\overline{\sim}$ | 12 24 48 - - | V \sim | 12 24 48 110 240 |
| | | | dB(A)1m | 72 77 79 76 78 | dB(A)1m | 78 85 87 81 85 | | | dB(A)1m | 75 81 83 75 81 | dB(A)1m | 79 85 89 81 87 |

Tower Sector: TWS

Tower Sector: TWS

| | | | |
|--|----------|-----------------|-------------------------------|
| V 12/24 \sim -48~ -110~ -240~ ($\pm 10\%$) | \equiv | \sim 50/60 Hz | On ∞ |
| autoestinguente self-extinguishing | IP 54 | | PC $^{\circ}\text{C}$ -30 +60 |

Modulo acustico magnetodinamico 32 suoni selezionabili da DIP SWITCH Magnetodynamic acoustic module 32 sounds can be selected by means of the DIP SWITCH



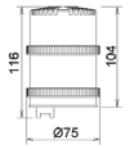
TWS AM
TWSAM

11

| | | | | |
|------------|---------------------------|----|-----|-----|
| V \equiv | 12/24 | - | - | - |
| V \sim | | 48 | 110 | 240 |
| mA | vedi tabella see table | | | |
| Hz | | | | |

| | |
|-------------|-------|
| TWSAM1224DA | 27790 |
| TWSAM48A | 27791 |
| TWSAM110A | 27792 |
| TWSAM240A | 27793 |

| | |
|--------------|-------|
| NTWSAM1224DA | 27794 |
| NTWSAM48A | 27795 |
| NTWSAM110A | 27796 |
| NTWSAM240A | 27797 |



Kg. 0,24

Tower Sector: TWS AM

| TIPO DI SUONO | SOUND TYPE | F (Hz) | 12 VDC | | 24 VDC | | 12 VAC | | 24 VAC | | 110 VAC | | 240 VAC | |
|---------------------------|-------------------------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|---------|-------|---------|-------|
| | | | mA | dB | mA | dB | mA | dB | mA | dB | mA | dB | mA | dB |
| Lineare | Linear | 1000 | 125 | 92 | 160 | 96,5 | 385 | 94 | 485 | 98 | 65 | 95,5 | 35 | 97 |
| Bitonale | Bi-tone | 600/700 | 125 | 90 | 150 | 96,5 | 380 | 92,5 | 450 | 99 | 65 | 96,5 | 35 | 97,5 |
| Pluritonale | Multi-tone | 1000/1700 | 150 | 95 | 185 | 99,5 | 445 | 98 | 555 | 101 | 70 | 98,5 | 40 | 99 |
| Modulato | Modulated | 1000/1700 | 150 | 97 | 185 | 101,5 | 440 | 100 | 550 | 103 | 75 | 100,5 | 40 | 101 |
| Evacuazione | Evacuation | 430/560 | 110 | 86,5 | 125 | 95,5 | 345 | 89 | 400 | 97 | 60 | 95,5 | 35 | 96 |
| Bitonale veloce | Fast bi-tone | 800/970 | 170 | 92,5 | 190 | 99,5 | 485 | 94,5 | 555 | 101 | 75 | 99 | 40 | 99,5 |
| Pluritonale veloce | Fast multi-tone | 800/970 | 110 | 93 | 140 | 97,5 | 350 | 96 | 435 | 99 | 60 | 97 | 35 | 98 |
| Pluritonale lento | Slow multi-tone | 800/970 | 110 | 95 | 140 | 99 | 350 | 97,5 | 440 | 100,5 | 60 | 99 | 35 | 100 |
| Lineare | Linear | 2830 | 320 | 97,5 | 360 | 102 | 770 | 100 | 915 | 103,5 | 95 | 99 | 55 | 99,5 |
| Pluritonale veloce | Fast multi-tone | 2400/2830 | 290 | 100,5 | 335 | 104,5 | 725 | 102,5 | 865 | 105,5 | 95 | 102 | 50 | 102,5 |
| Pluritonale lento | Slow multi-tone | 2400/2830 | 290 | 101 | 335 | 105,6 | 720 | 103,5 | 855 | 106,5 | 95 | 103 | 50 | 103,5 |
| Pluritonale intermittente | Intermittent multi-tone | 500/1200 | 85 | 95,5 | 110 | 99 | 280 | 98 | 355 | 101 | 65 | 99 | 35 | 100 |
| Pluritonale discendente | Descending multi-tone | 1200/500 | 95 | 94 | 125 | 98 | 315 | 96,5 | 385 | 99,5 | 60 | 98 | 35 | 98,5 |
| Bitonale | Bi-tone | 2400/2850 | 335 | 97,5 | 450 | 106 | 945 | 100,5 | 1060 | 107 | 105 | 102 | 60 | 102,5 |
| Intermittente lento | Slow intermittent | 970 | 70 | 92,5 | 95 | 96,5 | 230 | 94,5 | 295 | 97,5 | 65 | 96 | 35 | 96,5 |
| Bitonale | Bi-tone | 800/970 | 170 | 93 | 190 | 100 | 485 | 95 | 550 | 101 | 75 | 99 | 40 | 99,5 |
| Intermittente | Intermittent | 970 | 30 | 92 | 50 | 96 | 130 | 94 | 185 | 97 | 50 | 95,5 | 30 | 96,5 |
| Intermittente | Intermittent | 660 | 45 | 89,5 | 65 | 93,5 | 190 | 92 | 250 | 95,5 | 45 | 94,5 | 25 | 95 |
| Intermittente lento | Slow intermittent | 660 | 50 | 90,5 | 70 | 94,5 | 175 | 93 | 240 | 96,5 | 55 | 95,5 | 30 | 95,5 |
| Lineare | Linear | 500 | 65 | 89,5 | 90 | 93,5 | 235 | 93,5 | 290 | 96 | 50 | 95 | 30 | 95,5 |
| Bitonale | Bi-tone | 450/540 | 100 | 89 | 120 | 95,5 | 340 | 92,5 | 380 | 97,5 | 55 | 96 | 35 | 96,5 |
| Intermittente | Intermittent | 660 | 45 | 90,5 | 70 | 94,5 | 190 | 93 | 240 | 96,5 | 55 | 95,5 | 30 | 95,5 |
| Intermittente veloce | Fast intermittent | 2830 | 200 | 96,5 | 240 | 102 | 600 | 99,5 | 705 | 102,5 | 80 | 98,5 | 45 | 99 |
| Pluritonale (buzzer) | Multi-tone (buzzer) | 800/970 | 110 | 92,5 | 140 | 96,5 | 370 | 96 | 440 | 98,5 | 60 | 97 | 35 | 97,5 |
| Pluritonale (buzzer) | Multi-tone (buzzer) | 2400/2830 | 290 | 100 | 335 | 104 | 755 | 102,5 | 875 | 105,5 | 90 | 101,5 | 50 | 102 |
| Intermittente veloce | Fast intermittent | 2850 | 170 | 95,5 | 205 | 101 | 550 | 98,5 | 585 | 102 | 75 | 98,5 | 40 | 99 |
| Lineare | Linear | 300 | 40 | 87 | 60 | 91 | 170 | 91 | 220 | 93 | 40 | 93 | 25 | 93 |
| Bitonale con pausa | Bi-tone with pause | 600/700 | 30 | 89,5 | 45 | 96 | 120 | 92 | 170 | 98 | 55 | 96,5 | 30 | 97,5 |
| Bitonale con pausa | Bi-tone with pause | 1200/1700 | 45 | 95 | 60 | 98,5 | 170 | 97,5 | 230 | 100,5 | 60 | 99 | 35 | 99,5 |
| Bitonale con pausa | Bi-tone with pause | 2400/2830 | 70 | 100 | 90 | 104,5 | 210 | 103 | 295 | 106 | 85 | 102 | 45 | 102 |
| Bitonale | Bi-tone | 600/700 | 125 | 90 | 145 | 96,5 | 390 | 92,5 | 450 | 99 | 65 | 96,5 | 35 | 97,5 |
| Modulato | Modulated | 1400/1600 | 165 | 95 | 205 | 99,5 | 470 | 98 | 595 | 101,5 | 75 | 98,5 | 40 | 98,5 |

Accessori TWS - MINI TWS - BABY TWS

Accessories TWS - MINI TWS - BABY TWS

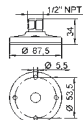
BASETTA - con O-Ring e guarnizione di base
 FOOT - with O-Ring and base gasket



PA

TWS BS

TWSBS ■ 27760
 NTWSBS ■ 27691



Kg. 0,03

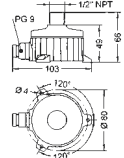
BOX DI GIUNZIONE
 JUNCTION BOX



PA

TWS BOX PG9

TWSBOXPG9 ■ 27777
 NTWSBOXPG9 ■ 27778



Kg. 0,1

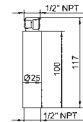
PROLUNGA - (h. 10 cm. - sovrapponibile) - con O-Ring e due guance a scatto amovibili (max. 2 pezzi)
 EXTENSION STEM (h. 10 cm. - stackable) - with O-Ring and two removable snap-shut stoppers (2 pcs max.)



PA

TWS PR

TWSPR ■ 27761
 NTWSPR ■ 27692



Kg. 0,03

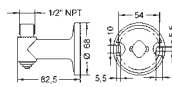
BASE A PARETE 1 FILETTO - con O-Ring e guarnizione di base
 1 THREAD WALL SUPPORT - with O-Ring and base gasket



PA

TWS BP 1

TWSBP1 ■ 27762
 NTWSBP1 ■ 27693



Kg. 0,04

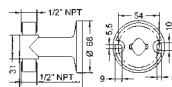
BASE A PARETE 2 FILETTI - con O-Ring e guarnizione di base
 2 THREAD WALL SUPPORT - with O-Ring and base gasket



PA

TWS BP 2

TWSBP2 ■ 27763
 NTWSBP2 ■ 27694



Kg. 0,05

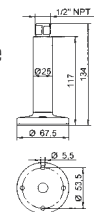
1 PR + 1 BS - con O-Ring, guarnizione di base e due guance a scatto amovibili
 1 PR + 1 BS - with O-Ring, base gasket and two removable snap-shut stoppers



PA

TWS KIT

TWSKIT ■ 27764
 NTWSKIT ■ 27695



Kg. 0,06

PROLUNGA FLESSIBILE ACCIAIO
 FLEXIBLE STEEL EXTENSION STEM



N TWS PF2

NTWSPF2 ■ 27696



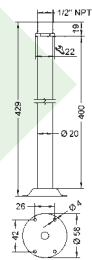
Kg. 0,26

PROLUNGA ACCIAIO INOX (h. 400 mm) - con O-Ring
 STAINLESS STEEL EXTENSION STEM (h. 400 mm) with O-Ring



TWS KIT INOX L/400

TWSKITINOXL400 ■ 27767



Kg. 0,28

PROLUNGA ACCIAIO INOX (h. 200 mm) - con O-Ring
 STAINLESS STEEL EXTENSION STEM (h. 200 mm) with O-Ring



TWS KIT INOX L/200

TWSKITINOXL200 ■ 27766



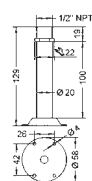
Kg. 0,18

PROLUNGA ACCIAIO INOX (h. 100 mm) - con O-Ring
 STAINLESS STEEL EXTENSION STEM (h. 100 mm) with O-Ring



TWS KIT INOX L/100

TWSKITINOXL100 ■ 27765



Kg. 0,14

Linea colonne luminose . Luminous towers range

Accessori Tower Sector: TWS

Accessories Tower Sector: TWS

LAMPADA A FILAMENTO FILAMENT BULB



**Ba15d
5 W**

Scatola 25 pz.
25 pc. box

Scatola 1x25 pz.
1x25 pc. box

Scatola singola
Single box

| | | | | | |
|----------------|-------|------------|-------|--------------|-------|
| 25PZBA15D5W12 | 27780 | BA15D5W12 | 70970 | LRBA15D5W12 | 70941 |
| 25PZBA15D5W24 | 27781 | BA15D5W24 | 70971 | LRBA15D5W24 | 70942 |
| 25PZBA15D5W48 | 27782 | BA15D5W48 | 70972 | LRBA15D5W48 | 70943 |
| 25PZBA15D5W130 | 27783 | BA15D5W130 | 70973 | LRBA15D5W130 | 70944 |
| 25PZBA15D5W240 | 27784 | BA15D5W240 | 70974 | LRBA15D5W240 | 70945 |

| DURATA DURATION | TIPO D'IMBALLO TYPE OF PACKAGING |
|--------------------|-------------------------------------|
| 2.000 h. ~ | |

LAMPADA A LED LED BULB



**Ba15d
LD 4.5.4
WO**

| | | | | | |
|-------------------|-------|-------------------|-------|-------------------|-------|
| LD454WOBA15D12DA1 | 40931 | LD454WOBA15D24DA3 | 40943 | LD454WOBA15D110A6 | 40956 |
| LD454WOBA15D12DA2 | 40932 | LD454WOBA15D24DA4 | 40944 | LD454WOBA15D24DA1 | 40961 |
| LD454WOBA15D12DA3 | 40933 | LD454WOBA15D24DA6 | 40946 | LD454WOBA15D24DA2 | 40962 |
| LD454WOBA15D12DA4 | 40934 | LD454WOBA15D110A1 | 40951 | LD454WOBA15D24DA3 | 40963 |
| LD454WOBA15D12DA6 | 40936 | LD454WOBA15D110A2 | 40952 | LD454WOBA15D24DA4 | 40964 |
| LD454WOBA15D24DA1 | 40941 | LD454WOBA15D110A3 | 40953 | LD454WOBA15D24DA6 | 40966 |
| LD454WOBA15D24DA2 | 40942 | LD454WOBA15D110A4 | 40954 | | |

| DURATA DURATION | TIPO D'IMBALLO TYPE OF PACKAGING |
|--------------------|--------------------------------------|
| 100.000 h. ~ | SCATOLA SINGOLA SINGLE BOX |

LAMPADA A LED LED BULB



**Ba15d
LD 103**

| | | | | | |
|--------------------|-------|--------------------|-------|--------------------|-------|
| LD103EXLBA15D12DA1 | 29491 | LD103BA15D24DA6 | 27806 | LD103BA15D110A3 | 29513 |
| LD103BA15D12DA2 | 29492 | LD103EXLBA15D24DA8 | 27808 | LD103BA15D110A5 | 29515 |
| LD103BA15D12DA3 | 29493 | LD103EXLBA15D48DA1 | 29501 | LD103BA15D110A6 | 29516 |
| LD103BA15D12DA5 | 29495 | LD103BA15D48DA2 | 29502 | LD103EXLBA15D110A8 | 29518 |
| LD103BA15D12DA6 | 29496 | LD103BA15D48DA3 | 29503 | LD103EXLBA15D24DA1 | 29521 |
| LD103EXLBA15D12DA8 | 29498 | LD103BA15D48DA5 | 29505 | LD103BA15D24DA2 | 29522 |
| LD103EXLBA15D24DA1 | 27801 | LD103BA15D48DA6 | 29506 | LD103BA15D24DA3 | 29523 |
| LD103BA15D24DA2 | 27802 | LD103EXLBA15D48DA8 | 29508 | LD103BA15D24DA5 | 29525 |
| LD103BA15D24DA3 | 27803 | LD103EXLBA15D110A1 | 29511 | LD103BA15D24DA6 | 29526 |
| LD103BA15D24DA5 | 27805 | LD103BA15D110A2 | 29512 | LD103EXLBA15D24DA8 | 29528 |

| DURATA DURATION | TIPO D'IMBALLO TYPE OF PACKAGING |
|--------------------|--------------------------------------|
| 100.000 h. ~ | SCATOLA SINGOLA SINGLE BOX |

LAMPADA A LED LED BULB



**Ba15d
LD 105
Ellisse**

| | | | | | |
|----------------------|-------|----------------------|-------|----------------------|-------|
| LD105EXLBA15DEL12DA1 | 27901 | LD105ELBA15D24DA6 | 27816 | LD105ELBA15D110A3 | 27913 |
| LD105ELBA15D12DA2 | 27902 | LD105EXLBA15DEL24DA8 | 27818 | LD105ELBA15D110A5 | 27915 |
| LD105ELBA15D12DA3 | 27903 | LD105EXLBA15DEL48DA1 | 27821 | LD105ELBA15D110A6 | 27916 |
| LD105ELBA15D12DA5 | 27905 | LD105ELBA15D48DA2 | 27822 | LD105EXLBA15DEL110A8 | 27918 |
| LD105ELBA15D12DA6 | 27906 | LD105ELBA15D48DA3 | 27823 | LD105EXLBA15DEL24DA1 | 29741 |
| LD105EXLBA15DEL12DA8 | 27908 | LD105ELBA15D48DA5 | 27825 | LD105ELBA15D24DA2 | 29742 |
| LD105EXLBA15DEL24DA1 | 27811 | LD105ELBA15D48DA6 | 27826 | LD105ELBA15D24DA3 | 29743 |
| LD105ELBA15D24DA2 | 27812 | LD105EXLBA15DEL48DA8 | 27828 | LD105ELBA15D24DA5 | 29745 |
| LD105ELBA15D24DA3 | 27813 | LD105EXLBA15DEL110A1 | 27911 | LD105ELBA15D24DA6 | 29746 |
| LD105ELBA15D24DA5 | 27815 | LD105ELBA15D110A2 | 27912 | LD105EXLBA15DEL24DA8 | 29748 |

| DURATA DURATION | TIPO D'IMBALLO TYPE OF PACKAGING |
|--------------------|--------------------------------------|
| 100.000 h. ~ | SCATOLA SINGOLA SINGLE BOX |

TUBO ALLO XENO XENON TUBE



LRX 2J

| | |
|-------|-------|
| LRX2J | 71634 |
|-------|-------|

| DURATA DURATION | TIPO D'IMBALLO TYPE OF PACKAGING |
|--------------------|--------------------------------------|
| 4.000 h. ~ | SCATOLA SINGOLA SINGLE BOX |