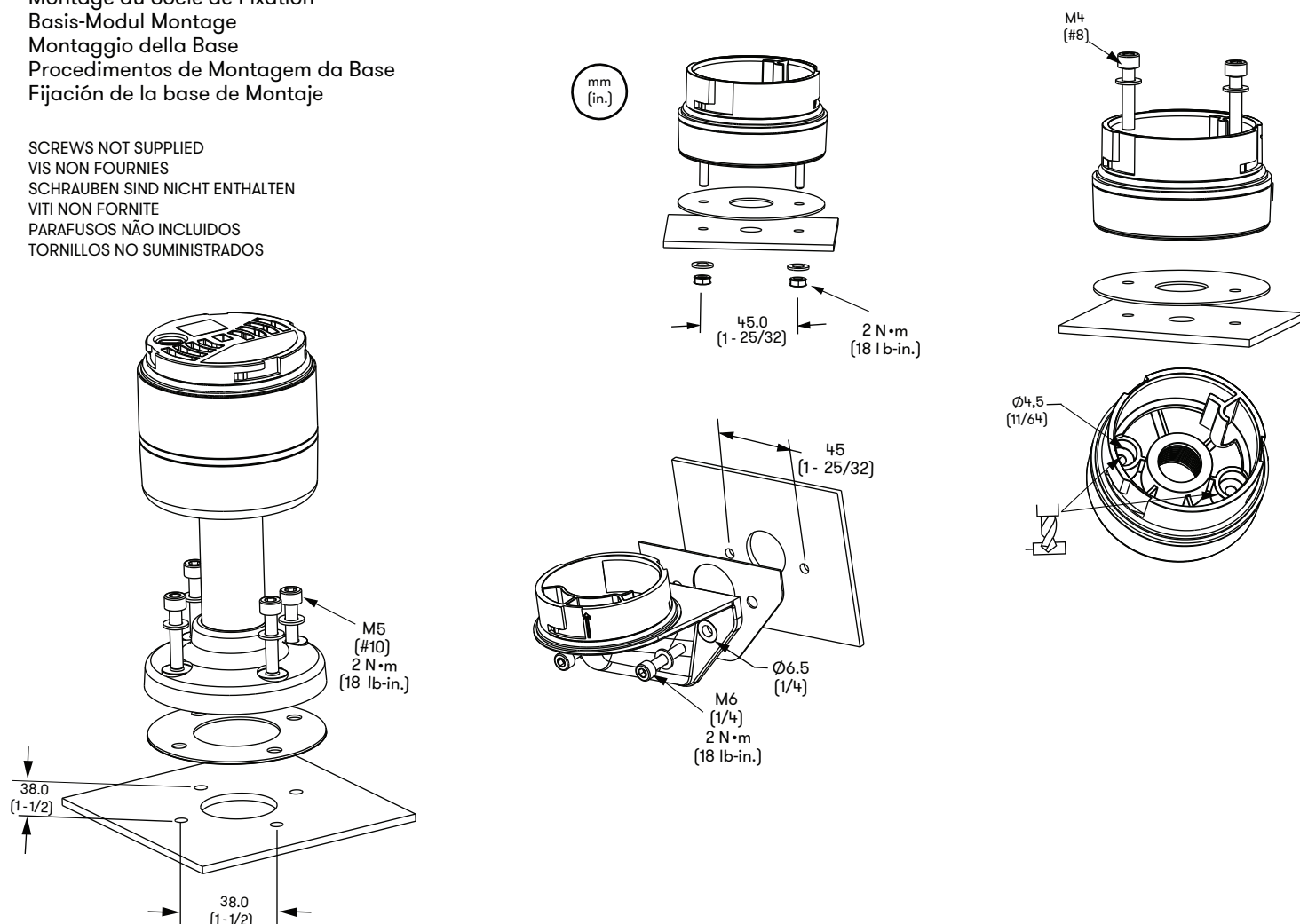


|                                                                                  |                      |                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>WARNING</b>       | Check power supply voltage and frequency. Use only modules and lamps with the same voltage and frequency ratings. Disconnect from power source to prevent electrical shock before installing or servicing.                                                           |
|                                                                                  | <b>AVERTISSEMENT</b> | Déconnecter l'alimentation avant toute opération d'installation ou de maintenance, afin d'éviter les décharges électriques. Contrôler la tension et la fréquence d'alimentation. Utiliser seulement des éléments et des lampes de même tension et de même fréquence. |
|                                                                                  | <b>WARNUNG</b>       | Strom abschalten um einen elektrischen Schock zu vermeiden während der Installation oder Wartungsarbeit. Prüfen Sie die Spannung und Frequenz. Benützen Sie ausschließlich Module und Glühlampen die die selbe Spannung und Frequenzen angeben.                      |
|                                                                                  | <b>AVVERTENZA</b>    | Scolligare dall'alimentazione prima dell'installazione e della messa in servizio. Controllare la tensione di alimentazione e la frequenza. Usare solo moduli e lampadas con la stessa tensione e frequenza.                                                          |
|                                                                                  | <b>ATENÇÃO</b>       | Desligar a alimentação antes de realizar qualquer intervenção. Verificar a tensão e frequência da alimentação. Só utilizar módulos e lâmpadas com as mesmas tensões e frequências.                                                                                   |
|                                                                                  | <b>ADVERTENCIA</b>   | Durante el proceso de instalación o mantenimiento desconectar la tensión de alimentación para evitar descargas eléctricas. Comprobar tensión y frecuencia de alimentación. Utilizar módulos y lámparas con la misma tensión y frecuencia.                            |
|  | <b>WARNING</b>       | Do not use strobe lights around anyone suffering from cerebral disorders (epilepsy). Strobe lights may cause seizures to occur.                                                                                                                                      |
|                                                                                  | <b>AVERTISSEMENT</b> | Ne pas utiliser de stroboscopique à proximité de personnes souffrant de problèmes cérébraux (épilepsie), afin d'éviter tout risque de crise.                                                                                                                         |
|                                                                                  | <b>WARNUNG</b>       | Verwenden Sie keine Blitzleuchten-Module im Nahbereich von Personen die an Epilepsie leiden.                                                                                                                                                                         |
|                                                                                  | <b>AVVERTENZA</b>    | Non usare luci stroboscopiche nelle vicinanze di persone sofferenti di epilessia.                                                                                                                                                                                    |
|                                                                                  | <b>ATENÇÃO</b>       | Não usar luzes strobe perto de pessoas sofrendo de problemas cerebrais (epilepsia). Estas luzes podem provocar um ataque.                                                                                                                                            |
|                                                                                  | <b>ADVERTENCIA</b>   | No utilizar luz estroboscópica alrededor de personas con problemas cerebrales (epilepsia). La luz estroboscópica puede causar ataques epilépticos.                                                                                                                   |

Base Mounting Procedure  
Montage du Socle de Fixation  
Basis-Modul Montage  
Montaggio della Base  
Procedimentos de Montagem da Base  
Fijación de la base de Montaje

\*NOTE: PC7BLV\*, PC7BHV3\* are IP66

SCREWS NOT SUPPLIED  
VIS NON FOURNIES  
SCHRAUBEN SIND NICHT ENTHALTEN  
VITI NON FORNITE  
PARAFUSOS NÃO INCLUIDOS  
TORNILLOS NO SUMINISTRADOS

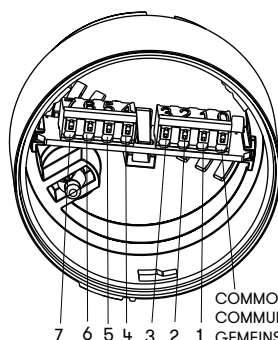


FOR USE ON A FLAT RIGID SURFACE OF INDICATED TYPE ENCLOSURE  
 À UTILISER SUR UNE SURFACE PLANE DE L'ENCEINTE DU TYPE INDIQUÉ  
 ZUR VERWENDUNG AUF EINER FLACHEN OBERFLÄCHE DES ANGEgebenEN GEHÄUSETYPUS  
 DA UTILIZZARE SU UNA SUPERFICIE PIANA DEL TIPO DI CUSTODIA INDICATO  
 PARA USO SOBRE LA SUPERFICIE PLANA DE UN ENVOLVENTE DEL TIPO INDICADO  
 PARA USO EM SUPERFÍCIE PLANA NO TIPO DE PROTEÇÃO INDICADA

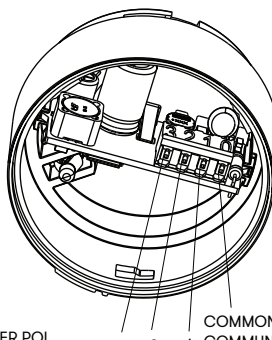
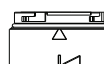
UL Type 4/4X/13

Electrical Connection  
 Raccordement Electrique  
 Elektrischer Anschluß  
 Collegamento Elettrico  
 Ligações Eléctricas  
 Conexiones Eléctricas

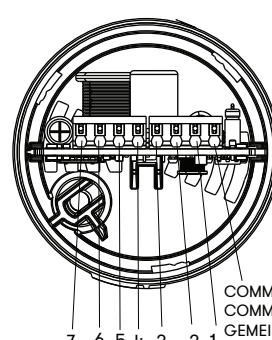
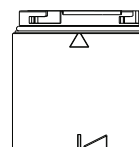
6 mm  
 (0.24 in)  
 24 - 14AWG (0.2-2.5mm<sup>2</sup>)



COMMON  
 COMMUN  
 GEMEINSAMER POL  
 COMMUNE  
 COMUN  
 COMÚN



COMMON  
 COMMUN  
 GEMEINSAMER POL  
 COMMUNE  
 COMUN  
 COMÚN

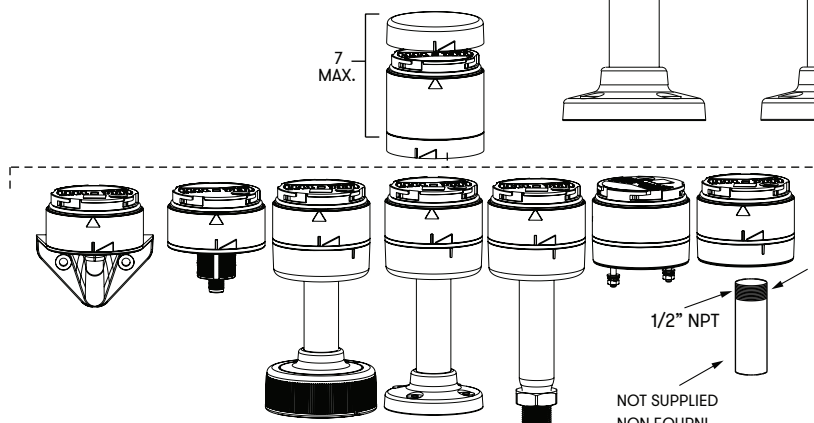
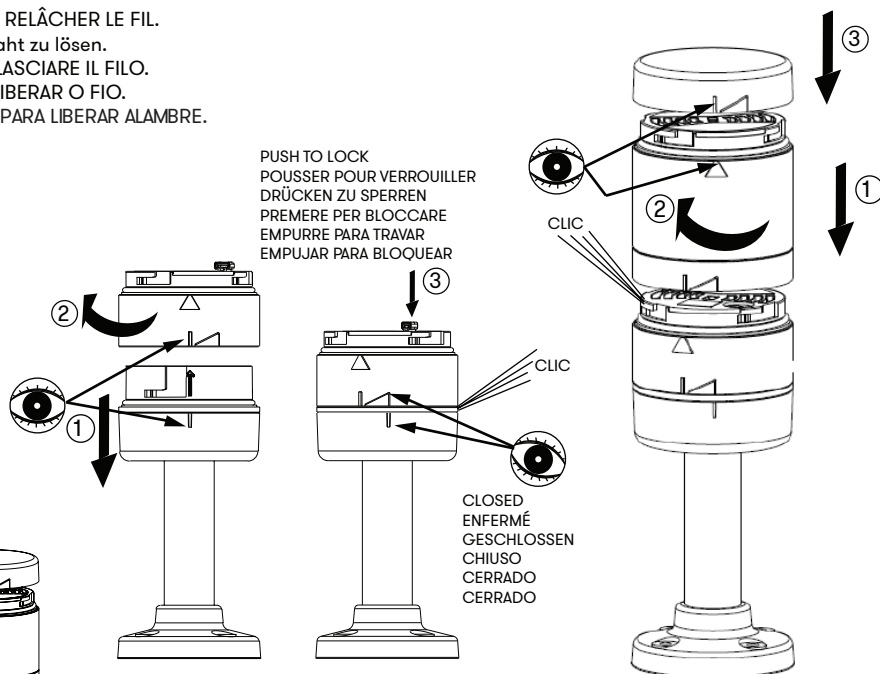


COMMON  
 COMMUN  
 GEMEINSAMER POL  
 COMMUNE  
 COMUN  
 COMÚN

PUSH WIRE INTO HOLE. PUSH WHITE BUTTON TO RELEASE WIRE.  
 POUSSER LE FIL DANS LE TROU. POUSSER LE BOUTON BLANC POUR RELÂCHER LE FIL.  
 DRAHT IN LOCH DRÜCKEN. Drücken Sie die weiße Taste, um den Draht zu lösen.  
 PREMERE IL FILO NEL FORO. PREMERE IL PULSANTE BIANCO PER RILASCIARE IL FILO.  
 PRESSIONE O FIO EM FURO. PRESSIONE O BOTÃO BRANCO PARA LIBERAR O FIO.  
 EMPUJE EL ALAMBRE EN EL ORIFICIO. PRESIONE EL BOTÓN BLANCO PARA LIBERAR ALAMBRE.

Module and Cap Mounting Procedure  
 Montage de l'élément et du Couvercle  
 Modul und Kappe Montage  
 Procedura di Montaggio del Modulo e del Calotta  
 Procedimento de Montagem do Módulo e da Cobertura  
 Procedimiento de Montaje de Módulo y Cubierta

\*Max 3 Circuits for PC7BHV3 upper base.  
 Some modules require 3 circuits for full functionality:  
 (PC7ZM, PC7VS, PC7ZI, PC7TD, PC7DM, PC7DMB)



NOT SUPPLIED  
 NON FOURNI  
 NICHT MITGELIEFERT  
 NON FORNITO  
 NÃO INCLuíDO  
 NO PROPORCIONADO

Use appropriate sealing methods  
 Utiliser les techniques d'étanchéification appropriées  
 Wenden Sie geeignete Dichtungsmethoden an  
 Utilizzare un sistema a di sigillatura appropriato  
 Utilize métodos apropriados de selagem  
 Utilizar métodos adecuados de sellado

# Modul-Perfect 70 Signal Tower

## PC7MC5, PC7MC8

-30°C to +45°C (-22°F to +113°F)



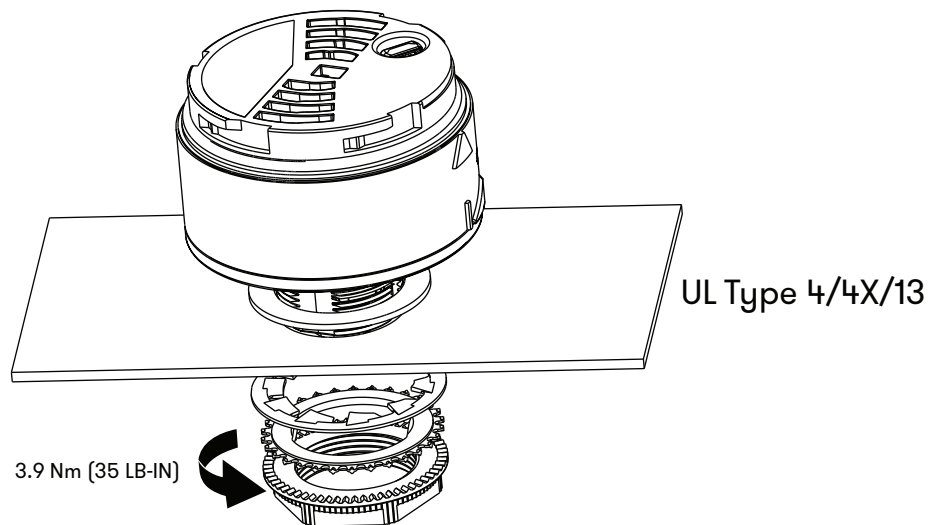
UL Type 4/4X/13 IP66/ IP67\*



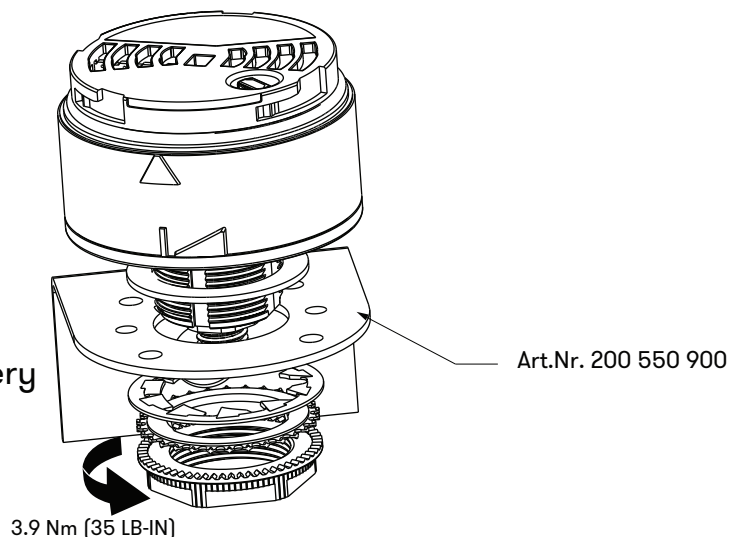
|                                                                                  |                      |                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>WARNING</b>       | Check power supply voltage and frequency. Use only modules and lamps with the same voltage and frequency ratings. Disconnect from power source to prevent electrical shock before installing or servicing.                                                           |
|                                                                                  | <b>AVERTISSEMENT</b> | Déconnecter l'alimentation avant toute opération d'installation ou de maintenance, afin d'éviter les décharges électriques. Contrôler la tension et la fréquence d'alimentation. Utiliser seulement des éléments et des lampes de même tension et de même fréquence. |
|                                                                                  | <b>WARNUNG</b>       | Strom abschalten um einen elektrischen Schock zu vermeiden während der Installation oder Wartungsarbeit. Prüfen Sie die Spannung und Frequenz. Benützen Sie ausschließlich Module und Glühlampen die die selbe Spannung und Frequenzen angeben.                      |
|                                                                                  | <b>AVVERTENZA</b>    | Scollegare dall'alimentazione prima dell'installazione e della messa in servizio. Controllare la tensione di alimentazione e la frequenza. Usare solo moduli e lampadas con la stessa tensione e frequenza.                                                          |
|                                                                                  | <b>ATENÇÃO</b>       | Desligar a alimentação antes de realizar qualquer intervenção. Verificar a tensão e frequência da alimentação. Só utilizar módulos e lâmpadas com as mesmas tensões e frequências.                                                                                   |
|                                                                                  | <b>ADVERTENCIA</b>   | Durante el proceso de instalación o mantenimiento desconectar la tensión de alimentación para evitar descargas eléctricas. Comprobar tensión y frecuencia de alimentación. Utilizar módulos y lámparas con la misma tensión y frecuencia.                            |
|  | <b>WARNING</b>       | Do not use strobe lights around anyone suffering from cerebral disorders (epilepsy). Strobe lights may cause seizures to occur.                                                                                                                                      |
|                                                                                  | <b>AVERTISSEMENT</b> | Ne pas utiliser de stroboscopique à proximité de personnes souffrant de problèmes cérébraux (épilepsie), afin d'éviter tout risque de crise.                                                                                                                         |
|                                                                                  | <b>WARNUNG</b>       | Verwenden Sie keine Blitzleuchten-Module im Nahbereich von Personen die an Epilepsie leiden.                                                                                                                                                                         |
|                                                                                  | <b>AVVERTENZA</b>    | Non usare luci stroboscopiche nelle vicinanze di persone sofferenti di epilessia.                                                                                                                                                                                    |
|                                                                                  | <b>ATENÇÃO</b>       | Não usar luzes strobe perto de pessoas sofrendo de problemas cerebrais (epilepsia). Estas luzes podem provocar um ataque.                                                                                                                                            |
|                                                                                  | <b>ADVERTENCIA</b>   | No utilizar luz estroboscópica alrededor de personas con problemas cerebrales (epilepsia). La luz estroboscópica puede causar ataques epilépticos.                                                                                                                   |

Base Mounting Procedure  
Montage du Socle de Fixation  
Basis-Modul Montage  
Montaggio della Base  
Procedimentos de Montagem da Base  
Fijación de la base de Montaje

FOR USE ON A FLAT RIGID SURFACE OF INDICATED TYPE ENCLOSURE  
À UTILISER SUR UNE SURFACE PLANE DE L'ENCEINTE DU TYPE INDICUÉ  
ZUR VERWENDUNG AUF EINER FLACHEN OBERFLÄCHE DES ANGEZEIGTEN GEHÄUSETYPUS  
DA UTILIZZARE SU UNA SUPERFICIE PIANA DEL TIPO DI CUSTODIA INDICATO  
PARA USO SOBRE LA SUPERFICIE PLANA DE UN ENVOLVENTE DEL TIPO INDICADO  
PARA USO EM SUPERFÍCIE PLANA NO TIPO DE PROTEÇÃO INDICADA



UL Type 1  
For use in industrial machinery  
NFPA 79 applications



Electrical Connection  
 Raccordement Electrique  
 Elektrischer Anschluß  
 Collegamento Elettrico  
 Ligações Eléctricas  
 Conexiones Eléctricas

Wiring practices must meet applicable electrical codes.

Les procédures de câblage doivent répondre aux codes électriques en vigueur.

Bei der Verdrahtung sind die geltenden elektrotechnischen Sicherheitsvorschriften zu befolgen.

Le procedure adottate per i cavi devono rispettare le codifiche elettriche applicabili.

A instalação da fiação deve atender aos códigos elétricos aplicáveis.

Las prácticas de instalación eléctrica deben seguir los códigos eléctricos.

PRE-WIRED. DO NOT DISASSEMBLE THE BASE

PRÉ-CÂBLÉ. NE PAS DÉMONTER LA EMBASE

VORVERDRAHTET, DIE BASIS NICHT ÖFFNEN

PRECABLATO. NON DISASSEMBLARE LA BASE

PRÉ-WIRED. NÃO ABRA A BASE

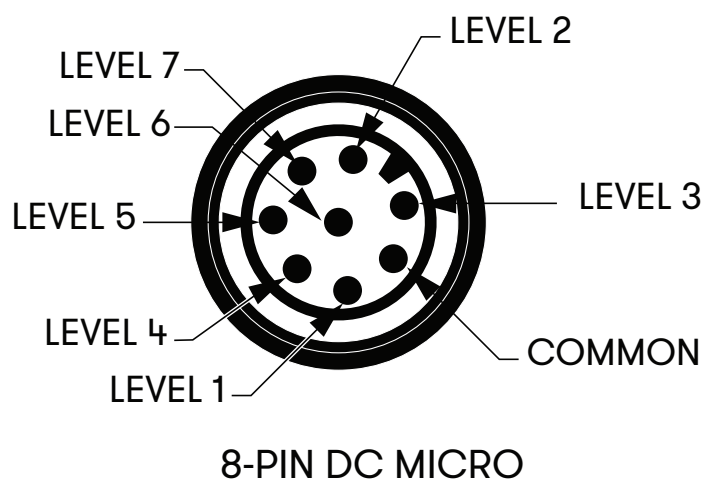
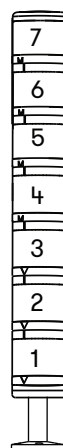
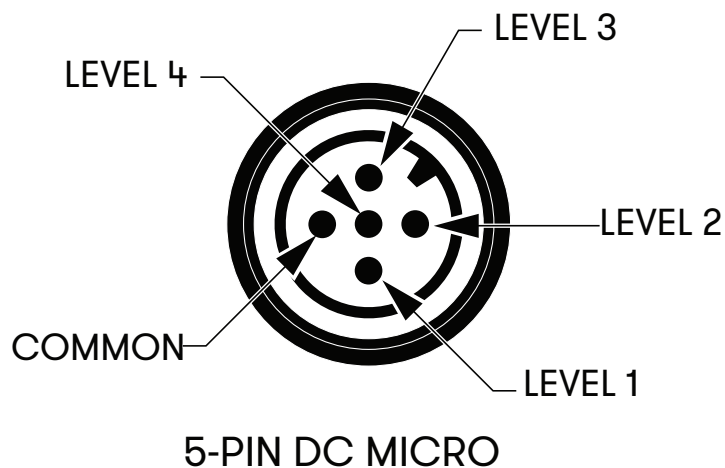
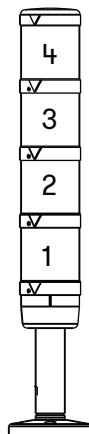
PRE-CABLEADO. NO DESENSAMBLE LA BASE

MAX: 30V AC/DC

PC7MC5: max 4 modules

PC7MC8: max 7 modules

FOR USE WITH ALLEN BRADLEY BUL. 889D CABLE ASSEMBLIES







Auer Signal

# YFR, XFR, ZFR, BFR, VFR, PC7FR

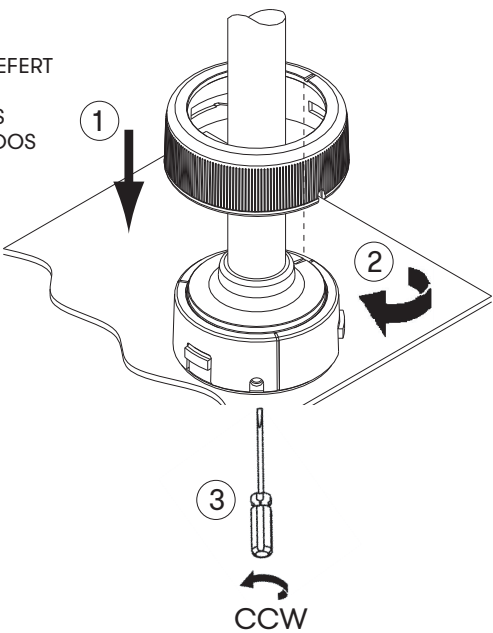
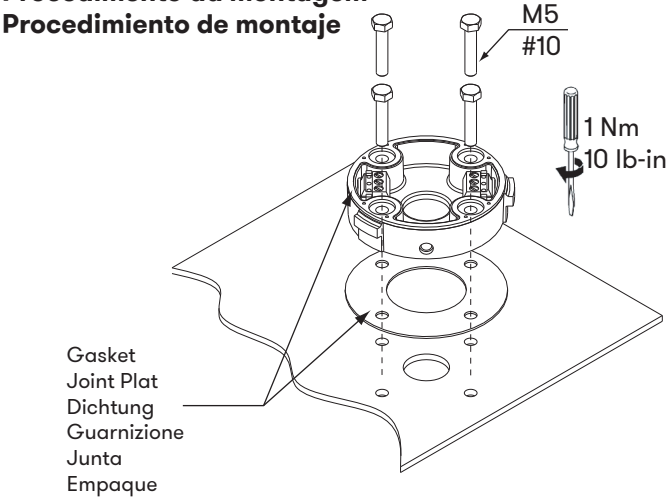
|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>WARNING</b> | <p>Disconnect power from source to prevent electrical shock before installing or servicing. Check power supply voltage and frequency. Do not energize when warning tower is not installed. Only the On-Machine™ base and On-Machine top piece with installed warning tower provide the complete device.</p>                                                                                         |
| <b>AVERTISSEMENT</b>                                                                            | <p>Déconnecter l'alimentation avant toute opération d'installation ou de maintenance, afin d'éviter les décharges électriques. Contrôler la tension et la fréquence d'alimentation. Ne branchez pas la colonne lumineuse tant qu'elle n'est pas totalement installée. La base pour On-Machine™ et la partie supérieure du On-Machine fournissent le dispositif complet d'une colonne lumineuse.</p> |
| <b>WARNUNG</b>                                                                                  | <p>Strom abschalten während Installation oder Wartungsarbeiten, um einen el. Schock zu vermeiden. Prüfen Sie Spannung und Frequenz. Spannung nicht anschalten, wenn Warnsäule nicht installiert ist. Nur die Kombination On-Machine™ Unterteil und On-Machine Oberteil mit Basismodul ergeben ein vollständiges Gerät.</p>                                                                          |
| <b>AVVERTENZA</b>                                                                               | <p>Disinserire l'alimentazione prima dell'installazione e della messa in servizio. Controllare la tensione d'alimentazione e la frequenza. Non dare tensione se la torretta d'avvertimento non è installata. Solo la base di On-Machine™ e l'adattatore zoccolo/modulo superiore con colonnina installata, costituiscono il dispositivo completo.</p>                                               |
| <b>ATENÇÃO</b>                                                                                  | <p>Desligue a alimentação, para evitar qualquer choque eléctrico, antes de fazer a instalação ou qualquer manutenção. Verifique a tensão de alimentação e a frequência. Não ligue a alimentação enquanto a torre de aviso não estiver instalada. O sistema só se encontra completo quando a base de On-Machine™ e a tampa superior, estiverem instalados juntamente com a torre de aviso.</p>       |
| <b>ADVERTENCIA</b>                                                                              | <p>Realizar la instalación o mantenimiento sin tensión de alimentación para evitar descargas eléctricas. Comprobar frecuencia y tensión de alimentación. No dar alimentación eléctrica antes de la instalación de la columna de señalización. Solo la base On-Machine™ y la parte alta con la columna de señalización instalada, forman el dispositivo completo.</p>                                |
|  <b>WARNING</b> | <p>For use on a flat rigid surface of indicated environmental type enclosure. Indicated environmental type rating only with installed warning tower. The shipping cover does not provide indicated environmental type rating. Check all gaskets for damage.</p>                                                                                                                                     |
| <b>AVERTISSEMENT</b>                                                                            | <p>Pour une utilisation sur surface plate, rigide ou un environnement recommandé. A n'utiliser dans un environnement recommandé qu'avec la colonne lumineuse. Le couvercle anti-poussière ne garantit pas un environnement recommandé. Examinez tous les joints d'étanchéité afin de décélérer les dégâts.</p>                                                                                      |
| <b>WARNUNG</b>                                                                                  | <p>Angegebene Schutzart nur auf glattem festem Untergrund der selben Schutzart und mit installierter Warnsäule. Die Staubschutzkappe bietet keine Schutzart wie angegeben. Überprüfen Sie die Dichtungen auf Beschädigungen.</p>                                                                                                                                                                    |
| <b>AVVERTENZA</b>                                                                               | <p>Da usare su superficie rigida piana o per ambiente corrispondente a quanto indicato sulla custodia. I dati limite ambientali indicati valgono solamente con torretta d'avvertimento installata. La calotta antipolvere non riporta i dati limite ambientali. Controllare l'integrità di tutte le guarnizioni.</p>                                                                                |
| <b>ATENÇÃO</b>                                                                                  | <p>Para utilizar numa superfície direita e rígida ou com uma caixa indicada para o tipo de meio. A classe de protecção da caixa indicada para o tipo de meio apenas com a torre de aviso instalada. A tampa contra poeiras não fornece qualquer classe de protecção à caixa indicada para o tipo de meio. Inspeccione todas as juntas para verificar se não existem danos.</p>                      |
| <b>ADVERTENCIA</b>                                                                              | <p>Para empleo sobre una superficie plana y rígida o envoltente adecuado al índice de protección. El índice de protección se cumple solo con la columna de señalización instalada. La tapa anti-polvo, no cumple con el índice de protección indicado. Revisen todas las juntas.</p>                                                                                                                |

Temperature range, Fourchette de temperatures, Temperaturbereich,  
Intervallo temperature, Rango de temperatura, Faixa de temperatura

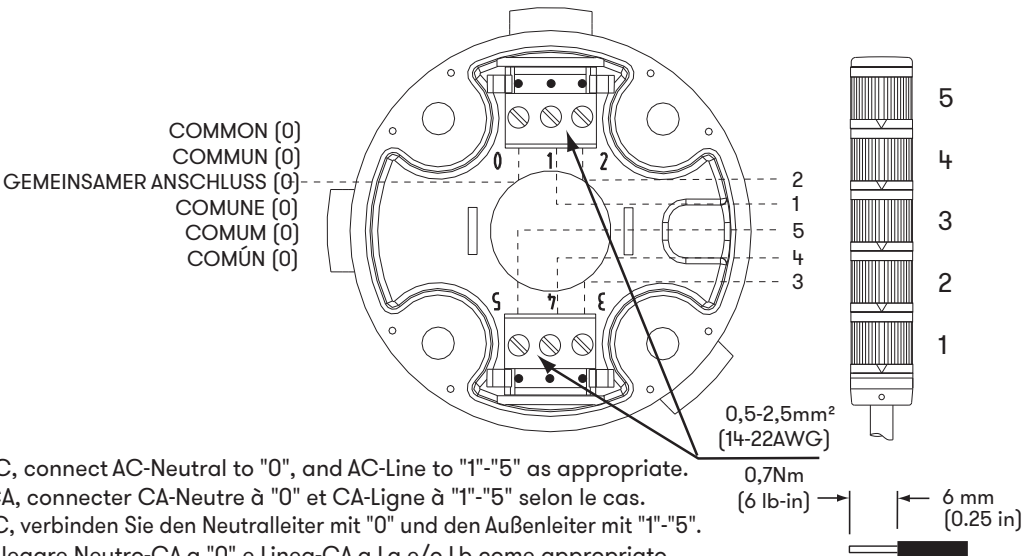
|                                    |                |
|------------------------------------|----------------|
| Modul-Signal 70                    | -25°C ...+70°C |
| Modul-Compact 30 / Modul-Signal 50 | -25°C .. +50°C |
| Modul-Compact 70                   | -25°C .. +60°C |
| Eco-Modul 40/60/70                 | -30°C .. +60°C |
| Modul-Perfect 70                   | -30°C .. +70°C |

**Mounting procedure**  
**Procédé de support**  
**Montage**  
**Procedura del montaggio**  
**Procedimento da montagem**  
**Procedimiento de montaje**

SCREWS NOT SUPPLIED  
 VIS NON FOURNIES  
 SCHRAUBEN NICHT MITGELIEFERT  
 VITI NON TORNITE  
 PARAFUSOS NAO INCLUIDOS  
 TORNILLOS NO SUMINISTRADOS

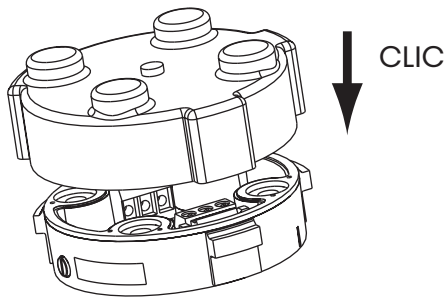


**Electrical Connection**  
**Raccordement Electrique**  
**Elektrischer Anschluss**  
**Collegamento Elettrico**  
**Ligacoes Eléctricas**  
**Conexiones Eléctricas**

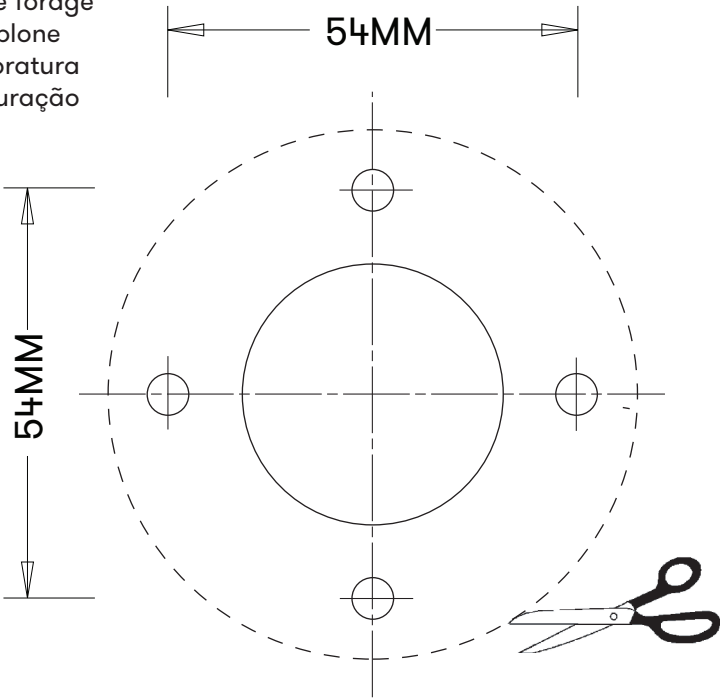


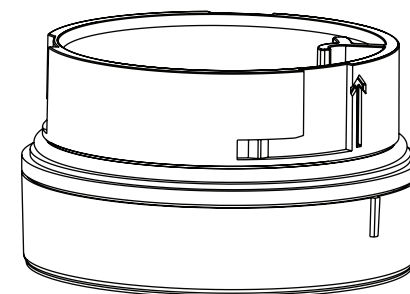
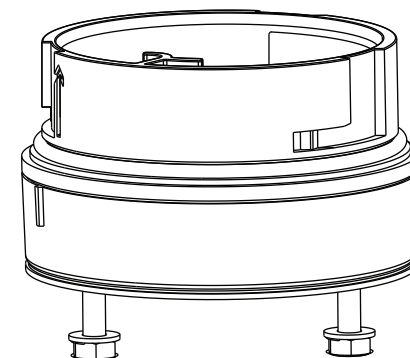
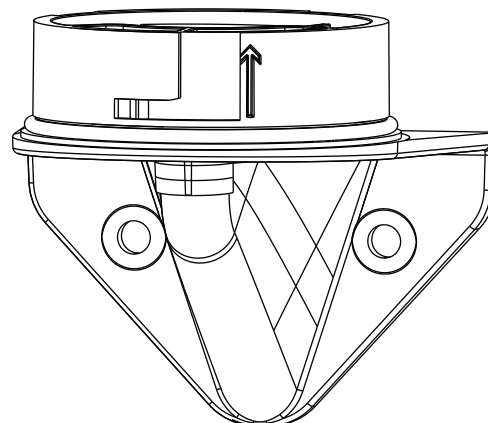
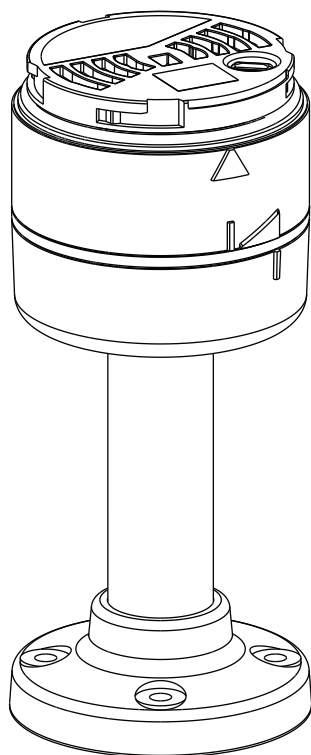
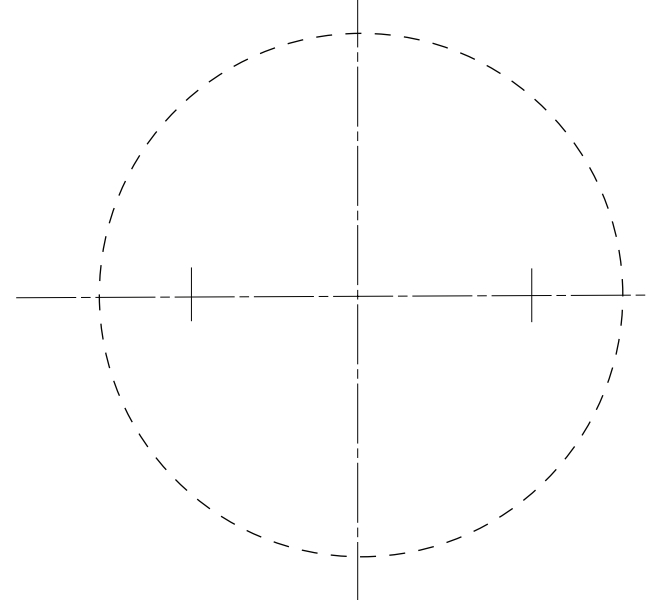
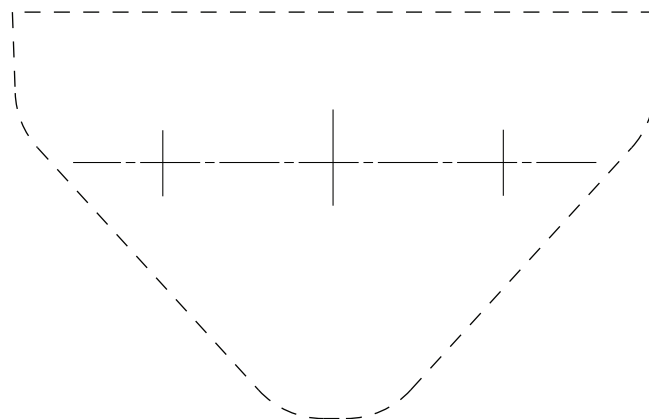
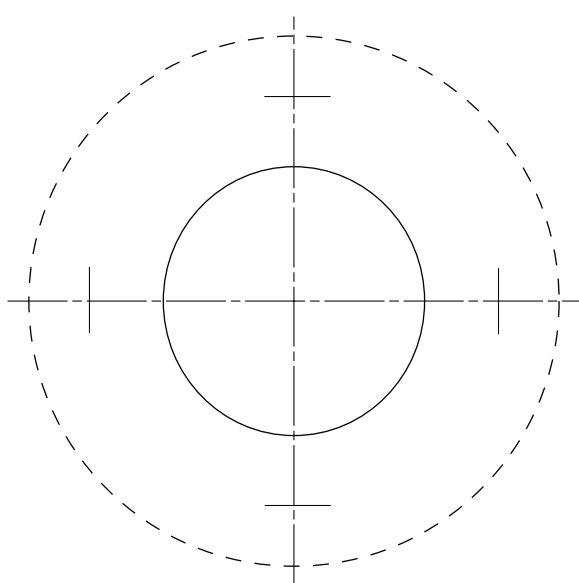
|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| <b>! WARNING</b>       | For 120V AC / 240V AC, connect AC-Neutral to "0", and AC-Line to "1"-5" as appropriate.          |
| <b>! AVERTISSEMENT</b> | Pour 120V CA / 240 CA, connecter CA-Neutre à "0" et CA-Ligne à "1"-5" selon le cas.              |
| <b>! WARNUNG</b>       | Für 120 V AC / 240 V AC, verbinden Sie den Neutralleiter mit "0" und den Außenleiter mit "1"-5". |
| <b>! AVVERTENZA</b>    | Per 120/240 V CA, collegare Neutro-CA a "0" e Linea-CA a La e/o Lb come appropriato.             |
| <b>! ATENÇÃO</b>       | Para 120V CA / 240V CA, conecte o CA Neutro ao "0" e a Linha CA ao "1"-5", conforme necessário.  |
| <b>! ADVERTENCIA</b>   | Para 120V AC / 240V AC, conecte Neutro-CA a "0" y Línea-CA a La o "1"-5" según corresponda.      |

**Shipping Cover**



**Drilling Template**  
**Calibre de forage**  
**Bohrschablone**  
**Dima di foratura**  
**Guia de furação**  
**Plantilla**





NOTE: If printed from an electronic source (PDF), this drilling template may not be exactly to scale. Verify dimensions before drilling holes.

NOTE: Se il est imprimé à partir d'un fichier électronique (PDF), il est possible que le gabarit de perçage ne ne soit pas exactement à l'échelle. Bien vérifier les dimensions avant de percer les trous.

BEMERKUNG: Wenn von elektrischer Quelle gedruckt wird (PDF), können der Bohrschablone leicht abweichen. Vor dem Bohren unbedingt überprüfen!

NOTA: se stampate da una fonte elettronico (PDF), questo modello di perforazione potrebbe non essere esattamente in scala. Verificare le dimensioni prima di fori.

NOTA: se stampate da una fonte elettronico (PDF), questo modello di perforazione potrebbe non essere esattamente in scala. Verificare le dimensioni prima di fori.

NOTA: Si se imprime desde una fuente electrónica (PDF), esta plantilla de perforación puede no estar exactanebta a escala. Verifique las dimensiones antes de perforar los agujeros.

# Modul-Perfect 70 Signal Tower Light Modules

-30°C to +70°C [-22°F to +158°F]



UL Type 4/4X/13 IP66/ IP67\*



## WARNING

## AVERTISSEMENT

## WARNUNG

## AVVERTENZA

## ATENÇÃO

## ADVERTENCIA

Do not use strobe lights around anyone suffering from cerebral disorders (epilepsy). Strobe lights may cause seizures to occur.

Ne pas utiliser de stroboscopique à proximité de personnes souffrant de problèmes cérébraux (épilepsie), afin d'éviter tout risque de crise.

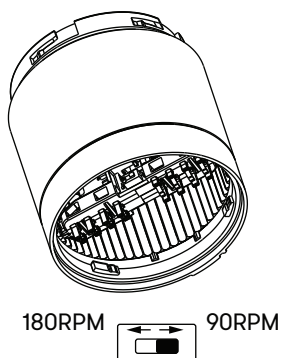
Verwenden Sie keine Blitzleuchten-Module im Nahbereich von Personen die an Epilepsie leiden.

Non usare luci stroboscopiche nelle vicinanze di persone sofferenti di epilessia.

Não usar luzes strobe perto de pessoas sofrendo de problemas cerebrais (epilepsia). Estas luzes podem provocar um ataque.

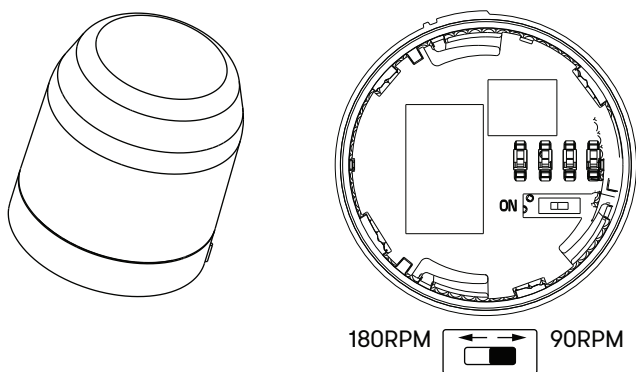
No utilizar luz estroboscópica alrededor de personas con problemas cerebrales (epilepsia). La luz estroboscópica puede causar ataques epilépticos.

### ROTATING MODULES IN-LINE (PC7DR)



180RPM 90RPM

### BEACON (PC7DRB)



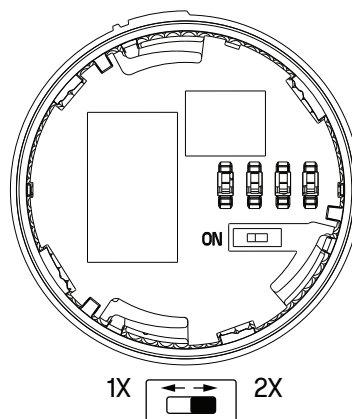
180RPM 90RPM

#### DIP SWITCH SETTINGS:

OFF = ROTATING SPEED 1 (90RPM)

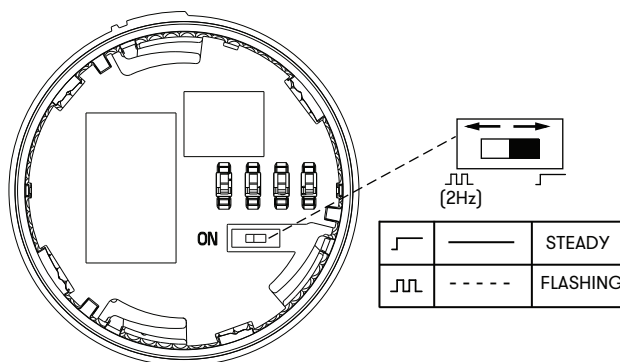
"ON" = ROTATING SPEED 2 (180RPM)

### BEACON STROBE MODULE (PC7DFB)



1X 2X

### BEACON STEADY/FLASHING MODULE (PC7DCB)



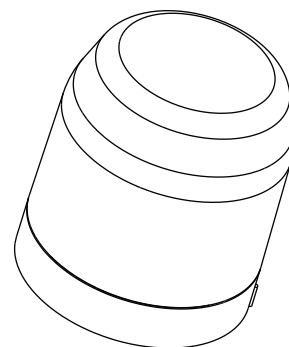
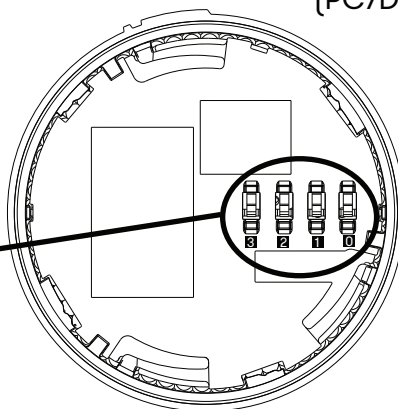
|                                                                                       |                                                                                       |          |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|
|  |  | STEADY   |
|  |  | FLASHING |

## MULTICOLOR MODULES

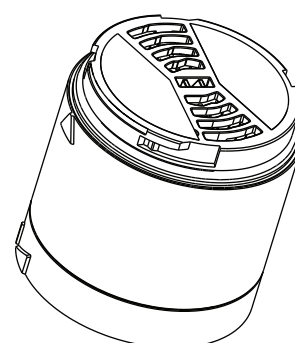
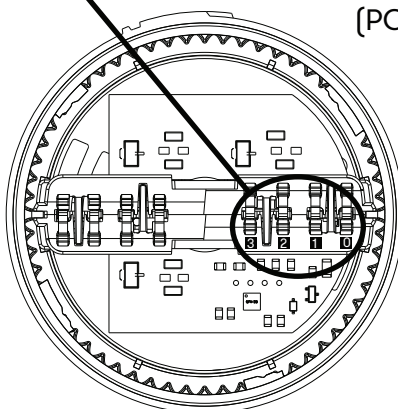
|           | INPUTS |   |   |
|-----------|--------|---|---|
|           | 1      | 2 | 3 |
| GREEN     | X      |   |   |
| YELLOW    |        | X |   |
| RED       |        |   | X |
| BLUE      | X      | X |   |
| MAGENTA   |        | X | X |
| TURQUOISE | X      |   | X |
| WHITE     | X      | X | X |

INPUT 0 = COMMON

BEACON  
(PC7DMB)

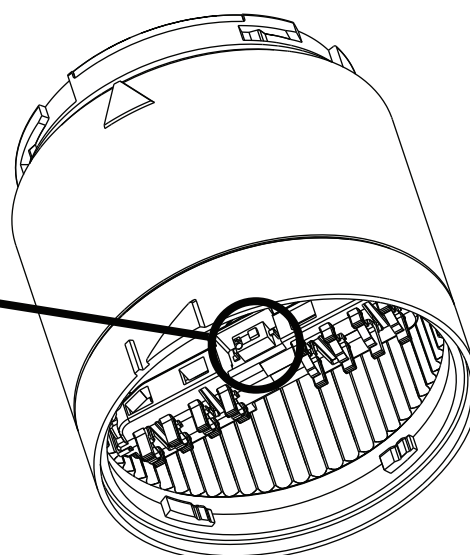


IN-LINE  
(PC7DM)



## IN-LINE MULTIFUNCTION MODULE (PC7DF)

|           | SWITCH SETTINGS |     |         |
|-----------|-----------------|-----|---------|
|           | S1              | S2  |         |
| STEADY    | OFF             | OFF |         |
| FLASHING  | ON              | OFF | (2Hz)   |
| 1X STROBE | ON              | ON  | (1.4Hz) |
| 2X STROBE | OFF             | ON  | (1.4Hz) |



# Modul-Perfect 70 Signal Tower

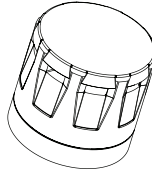
## PC7ZM

## PC7ZI

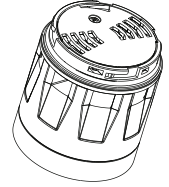


UL TYPE 4/4X/13  
IP66/67

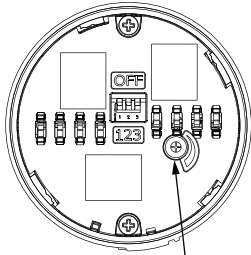
PIEZO MODULE  
PIEZO MODULE  
PIEZO-MODUL  
MODULO PIEZO  
MÓDULO PIEZO  
MÓDULO PIEZO



PIEZO MODULE, IN-LINE  
PIEZO MODULE, EN LIGNE  
PIEZO-MODUL, IN-LINE  
MODULO PIEZO, IN LINEA  
MÓDULO PIEZO, EM LINHA  
MÓDULO PIEZO, EN LÍNEA



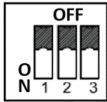
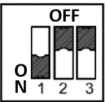
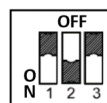
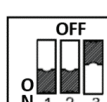
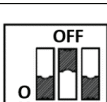
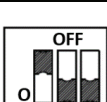
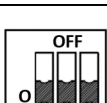
Black = switch position  
Noir = position de l'interrupteur  
Schwarz = Schalterstellung  
Nero = posizione dell'interruttore  
Preto = posição da chave  
Negro = posición del interruptor



VOLUME (-20dB)

856T-BP1: MAX. 105dB @ 1m  
856T-BPL1: MAX. 102dB @ 1m

-30°C to +70°C  
(-22°F to +158°F)

| SWITCH SETTINGS<br>RÉGLAGES DE L'INTERRUPTEUR<br>SCHALTEREINSTELLUNGEN<br>IMPOSTAZIONI DEL COMMUTATORE<br>CONFIGURAÇÕES DO INTERRUPTOR<br>CONFIGURACIÓN DEL INTERRUPTOR | Tone<br>Signal<br>Tonart<br>Tono<br>Som<br>Tono                                                                                                                                               | Frequency<br>Haute<br>Tonfrequenz<br>Frequenza<br>Frequência<br>Frecuencia | Repeat rate<br>Taux de répétition<br>Wiederholungsrate<br>Tasso di ripetizione<br>Taxa de repetição<br>Tasa de repetición |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                                                                        | Continuous Tone<br>Continu<br>Dauerton<br>Continuo<br>Som Contínuo<br>Tono Contínuo                                                                                                           | 2800 Hz                                                                    |                                                                                                                           |
|                                                                                       | Continuous Tone<br>Continu<br>Dauerton<br>Continuo<br>Som Contínuo<br>Tono Contínuo                                                                                                           | 1450 Hz                                                                    |                                                                                                                           |
|                                                                                      | Interrupted Tone<br>Intermittent<br>Unterbrochener Ton<br>Intermittenza<br>Som Intermitente<br>Tono Interrumpido                                                                              | 2800 Hz                                                                    | 250 ms on, 250 ms off                                                                                                     |
|                                                                                      | Interrupted Tone<br>Intermittent<br>Unterbrochener Ton<br>Intermittenza<br>Som Intermitente<br>Tono Interrumpido                                                                              | 1450 H                                                                     | 250 ms on, 250 ms off                                                                                                     |
|                                                                                      | DIN 33404-3 Emergency Signal<br>Signal D'Urgence-DIN 33404-3<br>DIN-Notsignal 33404-3<br>Segnale D'Emergenza DIN 33404-3<br>Sinal de Emergência DIN 33404-3<br>Tono de Emergencia DIN 33404-3 | 1200- 500 Hz                                                               | 1 Hz                                                                                                                      |
|                                                                                      | Netherlands NEN 2575:2000<br>Pays-Bas NEN 2575:2000<br>Niederlande NEN 2575:2000<br>Paesi Bassi NEN 2575:2000<br>Países Baixos NEN 2575:2000<br>Países Bajos NEN 2575:2000                    | 500 - 1200 Hz                                                              | Rising in 3 s / 0.5 s off                                                                                                 |
|                                                                                      | Changing Tone<br>Clignotant<br>Wechselton<br>Instabile<br>Som Onda Quadrada<br>Tono Cambiante                                                                                                 | 800 - 1000 Hz                                                              | 2 Hz                                                                                                                      |
|                                                                                      | Triangle Tone<br>Triangulaire<br>Dreieckton<br>Triangolo<br>Som Triangular<br>Tono Triángulo                                                                                                  | 500-1500 Hz                                                                | 10 Hz                                                                                                                     |



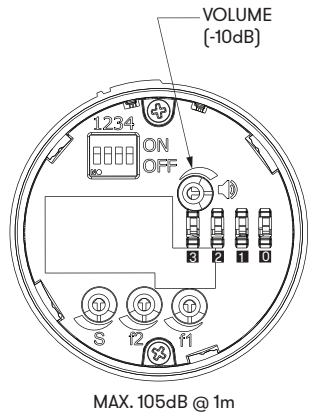


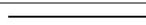
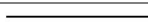
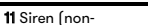
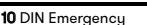
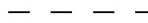
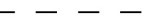
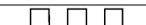
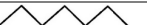
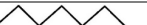
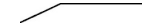
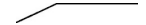
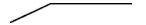
Black = switch position  
Noir = position de l'interrupteur  
Schwarz = Schalterstellung  
Nero = posizione dell'interruttore  
Preto = posição da chave  
Negro = posición del interruptor

1. Set DIP switches to pick desired group of tone settings.

2. Use 3 inputs to energize a specific tone from that group.

("1" = input high, "0" = input off).



|                        |             |    |    |    |    |    |    |    |    |
|------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stage 1<br>Input 1-0-0 | Tone        | <b>No. 1</b> Triangle Tone                                                          | <b>No. 2</b> Continous Tone                                                         | <b>No. 3</b> Continous Tone                                                           | <b>No. 4</b> Interrupted Tone                                                         | <b>No. 5</b> Interrupted Tone                                                         | <b>No. 6</b> Changing Tone                                                            | <b>No. 7</b> Saw Tooth Tone Ascending                                                 | <b>No. 8</b> Saw Tooth Tone Descending                                                |
|                        | Frequency   | Upper freq -f1-<br>Lower freq -f2-                                                  | 500-1500 Hz                                                                         | 500-1500 Hz                                                                           | 500-1500 Hz, -f2-                                                                     | 500-1500 Hz, -f1-                                                                     | Upper freq -f1-<br>Lower freq -f2-                                                    | Upper freq -f1-<br>Lower freq -f2-                                                    | Upper freq -f1-<br>Lower freq -f2-                                                    |
|                        | Repeat Rate | Speed -sp-                                                                          | -f2-                                                                                | -f1-                                                                                  | 0,5-1,5 Hz, -sp-                                                                      | 05,5-1,5 Hz -sp-                                                                      | Speed 0,5-1,5 Hz -sp-                                                                 | Speed -sp-                                                                            | Speed -sp-                                                                            |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 2<br>Input 0-1-0 | Tone        | <b>No. 16</b> Continous Tone                                                        | <b>No. 17</b> Continous Tone                                                        | <b>No. 18</b> Continous Tone                                                          | <b>No. 19</b> Continous Tone                                                          | <b>No. 20</b> Continous Tone                                                          | <b>No. 21</b> Continous Tone                                                          | <b>No. 22</b> Continous Tone                                                          | <b>No. 23</b> Continous Tone                                                          |
|                        | Frequency   | 600 Hz                                                                              | 1000 Hz                                                                             | 2400 Hz                                                                               | 340 Hz                                                                                | 500 Hz                                                                                | 825 Hz                                                                                | 1500 Hz                                                                               | 2850 Hz                                                                               |
|                        |             |    |    |    |    |    |    |    |    |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 3<br>Input 1-1-0 | Tone        | <b>No. 2</b> Continous Tone                                                         | <b>No. 6</b> Changing Tone                                                          | <b>No. 4</b> Interrupted Tone                                                         | <b>No. 13</b> Three Tone Gong                                                         | <b>No. 11</b> Siren (non-repeating)                                                   | <b>No. 10</b> DIN Emergency Signal                                                    | <b>No. 2</b> Continous Tone                                                           | <b>No. 4</b> Interrupted Tone                                                         |
|                        | Frequency   | 500-1500 Hz                                                                         | Upper freq -f1-<br>Lower freq -f2-                                                  | 500-1500 Hz, -f2-                                                                     | 660-550-400 Hz                                                                        | Upper freq -f1-<br>Lower freq -f2-                                                    | Upper freq 1200 Hz<br>Lower freq 500 Hz                                               | 500-1500 Hz                                                                           | 500-1500 Hz, -f2-                                                                     |
|                        | Repeat Rate | -f2-                                                                                | Speed 0,5-1,5 Hz -sp-                                                               | 0,5-1,5 Hz, -sp-                                                                      | Speed 2-4 s -sp-                                                                      | Speed -sp- (2-4 sec)                                                                  | Speed fixed 1 Hz                                                                      | -f2-                                                                                  | 0,5-1,5 Hz, -sp-                                                                      |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 4<br>Input 0-0-1 | Tone        | <b>No. 27</b> Alternating                                                           | <b>No. 28</b> Alternating                                                           | <b>No. 29</b> Alternating                                                             | <b>No. 30</b> Alternating                                                             | <b>No. 31</b> Alternating                                                             | <b>No. 32</b> Alternating                                                             | <b>No. 33</b> Alternating                                                             | <b>No. 34</b> Alternating                                                             |
|                        | Frequency   | 554-440 Hz                                                                          | 800-1000 Hz                                                                         | 2400-2900 Hz                                                                          | 1000-2000 Hz                                                                          | 440-554 Hz                                                                            | 825-1075 Hz                                                                           | 825-1025 Hz                                                                           | 2500-3100 Hz                                                                          |
|                        | Repeat Rate | 1 Hz                                                                                | 2 Hz                                                                                | 2 Hz                                                                                  | 1 Hz                                                                                  | 1 Hz                                                                                  | 1 Hz                                                                                  | 2 Hz                                                                                  | 0,5 Hz                                                                                |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 5<br>Input 1-0-1 | Tone        | <b>No. 43</b> Intermittent                                                          | <b>No. 44</b> Intermittent                                                          | <b>No. 45</b> Intermittent                                                            | <b>No. 46</b> Intermittent                                                            | <b>No. 47</b> Intermittent                                                            | <b>No. 48</b> Intermittent                                                            | <b>No. 49</b> Intermittent                                                            | <b>No. 50</b> Intermittent                                                            |
|                        | Frequency   | 420 Hz                                                                              | 660 Hz                                                                              | 660 Hz                                                                                | 970 Hz                                                                                | 970 Hz (950)                                                                          | 800 Hz                                                                                | 700 Hz                                                                                | 720 Hz                                                                                |
|                        | Repeat Rate | 0,625 s on / 0,625 s off                                                            | 1,8 s on - 1,8 s off                                                                | 0,15 s on / 0,15 s off                                                                | 1 s on, 1 s off                                                                       | 0,5 s on/0,5 s off x 3 then 1 s on                                                    | 0,25 s on / 1 s off                                                                   | 0,15 s on / 0,15 s off, total 1 min                                                   | 0,7 s on / 0,3 s off                                                                  |
|                        |             |  |  |  |  |  |  |  |  |
| Stage 6<br>Input 0-1-1 | Tone        | <b>No. 59</b> Sweeping                                                              | <b>No. 60</b> Sweeping                                                              | <b>No. 61</b> Sweeping                                                                | <b>No. 62</b> Sweeping                                                                | <b>No. 38</b> Sweeping                                                                | <b>No. 39</b> Sweeping                                                                | <b>No. 40</b> Sweeping                                                                | <b>No. 41</b> Sweeping                                                                |
|                        | Frequency   | 1200-500 Hz                                                                         | 500-1200 Hz                                                                         | 1400-1600 Hz                                                                          | 2400-2900 Hz                                                                          | 300-1200 Hz                                                                           | 500-1000 Hz                                                                           | 500-1200 Hz                                                                           | 700-1500 Hz                                                                           |
|                        | Repeat Rate | 1 Hz                                                                                | 0,3 Hz                                                                              | Rising in 1 s / falling in 0,5 s                                                      | 1 Hz                                                                                  | 1 Hz                                                                                  | 0,15 Hz                                                                               | 3 Hz                                                                                  | 0,3 Hz                                                                                |
|                        |             |  |  |  |  |  |  |  |  |
| Stage 7<br>Input 1-1-1 | Tone        | <b>No. 70</b> Slow rise                                                             | <b>No. 71</b> Slow rise                                                             | <b>No. 69</b> Three Tone Gong                                                         | <b>No. 72</b> Slow rise                                                               | <b>No. 73</b> Chime                                                                   | <b>No. 74</b> Chime                                                                   | <b>No. 76</b> Sweeping                                                                | <b>No. 76</b> Sweeping                                                                |
|                        | Frequency   | 500-2400 Hz                                                                         | 300-1200 Hz                                                                         | 660-550-440 Hz                                                                        | 0-800 Hz                                                                              | 554-440 Hz                                                                            | 554-400 Hz                                                                            | 500-1200 Hz                                                                           | 500-1200 Hz                                                                           |
|                        | Repeat Rate | Siren ris ing in 3 s, then cont. 2400 Hz                                            | Siren rising in 3 s, then cont. 1200 Hz                                             | Repeating 3-tone gong, 7s                                                             | Siren rising in 3 s, then cont. 800 Hz                                                | Repeating ding-dong, 1Hz                                                              | Single ding-dong                                                                      | Rising in 3,75 s/ 0,25 s off                                                          | Rising in 3,5 s/ 0,5 s off                                                            |
|                        |             |  |  |  |  |  |  |  |  |



Black = switch position  
 Noir = position de l'interrupteur  
 Schwarz = Schalterstellung  
 Nero = posizione dell'interruttore  
 Preto = posição da chave  
 Negro = posición del interruptor

# Modul-Perfect 70 PC7TD

-30°C to +70°C (-22°F to +158°F)

UL Type 4/4X/13 IP66/ IP67



|                        |             |    |    |    |    |    |    |    |    |
|------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Stage 1<br>Input 1-0-0 | Tone        | <b>No. 9</b> Sine Wave Tone                                                         | <b>No. 10</b> DIN Emergency Signal                                                  | <b>No. 11</b> Siren (non-repeating)                                                   | <b>No. 12</b> Signal Horn (Continuous)                                                | <b>No. 13</b> Three Tone Gong                                                         | <b>No. 14</b> Two Tone Gong                                                           | <b>No. 15</b> Gong                                                                    | <b>No. 2</b> Continuous Tone                                                          |
|                        | Frequency   | Upper freq -f1-<br>Lower freq -f2-                                                  | Upper freq 1200 Hz<br>Lower freq 500 Hz                                             | Upper freq -f1-<br>Lower freq -f2-                                                    | 100-350 Hz                                                                            | 660-550-440 Hz                                                                        | 550-440 Hz                                                                            | 500-1500 Hz -f1-                                                                      | 500-1500 Hz                                                                           |
|                        | Repeat Rate | Speed -sp-                                                                          | Speed fixed 1 Hz                                                                    | Speed -sp- 2-4 sec                                                                    | -f1-                                                                                  | Speed 2-4s -sp-                                                                       | Speed 2-4s -sp-                                                                       | Speed -sp-                                                                            | -f2-                                                                                  |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 2<br>Input 0-1-0 | Tone        | <b>No. 22</b> Continuous                                                            | <b>No. 16</b> Continuous                                                            | <b>No. 17</b> Continuous                                                              | <b>No. 18</b> Continuous                                                              | <b>No. 19</b> Continuous                                                              | <b>No. 20</b> Continuous                                                              | <b>No. 21</b> Continuous                                                              | <b>No. 22</b> Continuous                                                              |
|                        | Frequency   | 1500 Hz                                                                             | 660 Hz                                                                              | 1000 Hz                                                                               | 2400 Hz                                                                               | 340 Hz                                                                                | 500 Hz                                                                                | 825 Hz                                                                                | 1500 Hz                                                                               |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 3<br>Input 1-1-0 | Tone        | <b>No. 10</b> DIN Emergency Signal                                                  | <b>No. 24</b> Three Tone Gong (non-repeating)                                       | <b>No. 25</b> Triangle Tone                                                           | <b>No. 2</b> Continuous Tone                                                          | <b>No. 9</b> Sine Wave Tone                                                           | <b>No. 26</b> Two Tone Gong (non-repeating)                                           | <b>No. 2</b> Continuous Tone                                                          | <b>No. 3</b> Continuous Tone                                                          |
|                        | Frequency   | Upper freq 1200 Hz<br>Lower freq 500 Hz                                             | 660-550-440 Hz                                                                      | Upper freq -f1-<br>Lower freq -f2-                                                    | 500-1500 Hz                                                                           | Upper freq -f1-<br>Lower freq -f2-                                                    | 550-440 Hz                                                                            | 500-1500 Hz                                                                           | 500-1500 Hz                                                                           |
|                        | Repeat Rate | Speed fixed 1 Hz                                                                    | Speed 2-4s -sp-                                                                     | Speed -sp- 2-4sec                                                                     | -f2-                                                                                  | Speed -sp-                                                                            | Speed 2-4s -sp-                                                                       | -f2-                                                                                  | -f1-                                                                                  |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 4<br>Input 0-0-1 | Tone        | <b>No. 35</b> Alternating                                                           | <b>No. 36</b> Alternating                                                           | <b>No. 37</b> Alternating                                                             | <b>No. 38</b> Sweeping                                                                | <b>No. 39</b> Sweeping                                                                | <b>No. 40</b> Sweeping                                                                | <b>No. 41</b> Sweeping                                                                | <b>No. 42</b> Sweeping                                                                |
|                        | Frequency   | 2400-2850 Hz                                                                        | 500-900 Hz                                                                          | 1200-1400 Hz                                                                          | 300-1200 Hz                                                                           | 500-100 Hz                                                                            | 500-1200 Hz                                                                           | 700-1500 Hz                                                                           | 800-1000 Hz                                                                           |
|                        | Repeat Rate | 2 Hz                                                                                | 2 Hz                                                                                | 25 Hz                                                                                 | 1 Hz                                                                                  | 0,15 Hz                                                                               | 3 Hz                                                                                  | 0,3 Hz                                                                                | 7 Hz                                                                                  |
| Stage 5<br>Input 1-0-1 | Tone        | <b>No. 51</b> Intermittent                                                          | <b>No. 52</b> Intermittent                                                          | <b>No. 53</b> Intermittent                                                            | <b>No. 54</b> Intermittent                                                            | <b>No. 55</b> Intermittent                                                            | <b>No. 56</b> Intermittent                                                            | <b>No. 57</b> Intermittent                                                            | <b>No. 58</b> Intermittent                                                            |
|                        | Frequency   | 2400 Hz                                                                             | 2850 Hz                                                                             | 660 Hz                                                                                | 680 Hz                                                                                | 950 Hz                                                                                | 1000 Hz                                                                               | 800 Hz                                                                                | 825 Hz                                                                                |
|                        | Repeat Rate | 0,5 s on / 0,5 s off                                                                | 0,5 s on / 0,5 s off x3 then 1 s on                                                 | 0,5 s on / 0,5 s off                                                                  | 0,875 s on / 0,675 s off                                                              | 1 s on / 1 s off                                                                      | 1 s on / 1 s off                                                                      | 4 ms on / 4 ms off                                                                    | 0,5 s on / 0,5 s off                                                                  |
|                        |             |    |    |    |    |    |    |    |    |
| Stage 6<br>Input 0-1-1 | Tone        | <b>No. 42</b> Sweeping                                                              | <b>No. 63</b> Sweeping                                                              | <b>No. 64</b> Sweeping                                                                | <b>No. 65</b> Sweeping                                                                | <b>No. 66</b> Sweeping                                                                | <b>No. 67</b> Sweeping                                                                | <b>No. 68</b> Slow rise                                                               | <b>No. 69</b> Three Tone Gong                                                         |
|                        | Frequency   | 800-1000 Hz                                                                         | 800-1000 Hz                                                                         | 2400-2900 Hz                                                                          | 2400-2900 Hz                                                                          | 2400-2900 Hz                                                                          | 500-1500 Hz                                                                           | 300-1200 Hz                                                                           | 660-550-440 Hz                                                                        |
|                        | Repeat Rate | 7 Hz                                                                                | 50 Hz                                                                               | 7 Hz                                                                                  | 50 Hz                                                                                 | 3 Hz                                                                                  | 10 Hz                                                                                 | Siren rising in 3 s, then continuous 1200 Hz                                          | Repeating, 7 s                                                                        |
| Stage 7<br>Input 1-1-1 | Tone        | <b>No. 77</b> Sweeping                                                              | <b>No. 78</b> Intermittent                                                          | <b>No. 79</b> Sweeping                                                                | <b>No. 80</b> Continuous                                                              | <b>No. 81</b> Alternating                                                             | <b>No. 82</b> Intermittent                                                            | <b>No. 73</b> Chime                                                                   | <b>No. 74</b> Chime                                                                   |
|                        | Frequency   | 500-1200 Hz                                                                         | 825 Hz                                                                              | 150-1000 Hz                                                                           | 400 Hz                                                                                | 440-554 Hz                                                                            | 2000 Hz                                                                               | 554-440 Hz                                                                            | 554-440 Hz                                                                            |
|                        | Repeat Rate | 0,5 s on / 0,5 s off x3 then 1,5 s on                                               | 2,5 s on / 2,5 s off x7 then 7 s pulse                                              | Rising 10 s, 40 s on, falling 10 s                                                    | Simulated Horn                                                                        | 0,4 s (440 Hz) / 0,1 s (554 Hz)                                                       | 45 ms on / 55 ms off                                                                  | Repeating Ding Dong, 1 Hz                                                             | Single Ding Dong                                                                      |
|                        |             |  |  |  |  |  |  |  |  |