

# Signal towers and signal beacons

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Signal towers and signal beacons offer customers a wide range of signal elements in all voltages and a solution for every signalling field

## Signal towers

- Fast mounting of signal elements using bayonet fixing
- Easy changing of bulbs for each module without tools
- Flexibility of signal element combination
- Up to 5 elements possible/up to 10 elements with bracket for 2-sided mounting
- High protection rating optical and audible signal elements with IP54
- LED elements for long life

## Signal beacons

- Design withstands every mechanical and natural challenge both indoors and outdoors.
- High protection rating IP65
- Cap consists of high impact polycarbonate (up to 20 J)
- Bulb change via inside of control box

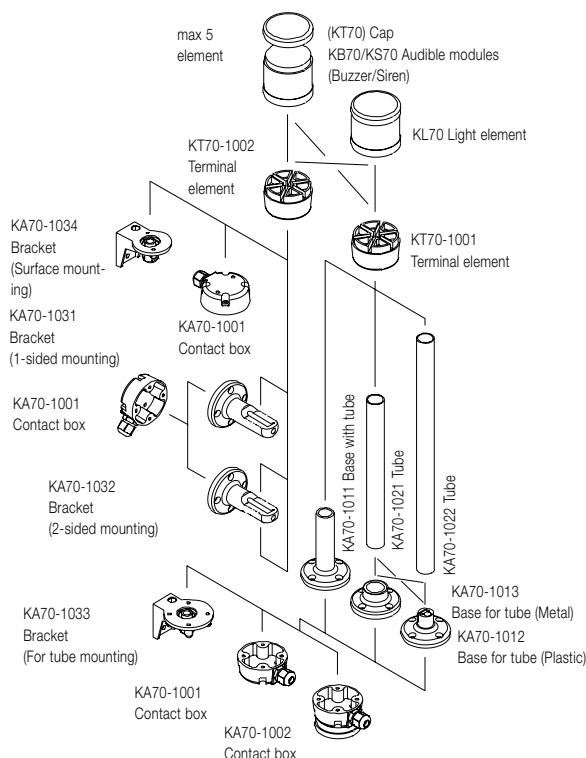
## Simple fitting with quick fix system

Each signal tower module is equipped with a bayonet fixing with integral contact system. The modules are fastened together by aligning the corresponding white marks then with a gentle twist they are locked into place (see the figures).

## Signal towers and beacons

- Permanent light
- Blinking light
- Flashing light
- Audible
- LED permanent light
- LED blinking light
- LED rotating light

## Combination possibilities



# Signal towers and signal beacons

## Overview

|                                  |     |
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# Signal towers



KL70-401B

1SFC151507F001



KL70-401Y

1SFC151508F001



KA4-102...

1SFC151509F001

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| Description                                                                     |           |                 |        |         |                  |
|---------------------------------------------------------------------------------|-----------|-----------------|--------|---------|------------------|
| Colors                                                                          | Red       | Green           | Yellow | Blue    | Clear            |
| Replace <input checked="" type="checkbox"/> in type with                        | R         | G               | Y      | L       | C                |
| Replace <input type="checkbox"/> in order code with                             | 1         | 2               | 3      | 4       | 8                |
| Description                                                                     | Type      | Order code      |        | Pkg qty | Weight (1pce) Kg |
| Light element                                                                   |           |                 |        |         |                  |
| Available in red, green, yellow, blue and clear                                 |           |                 |        |         |                  |
| Permanent light, 12-240 V AC/DC For bulb BA 15d.                                |           |                 |        |         |                  |
| Bulb not included                                                               | KL70-401■ | 1SFA616070R401□ |        | 1       | 0.09             |
| Blinking light, 24 V AC/DC with integrated LED                                  | KL70-306■ | 1SFA616070R306□ |        | 1       | 0.10             |
| Flashing light, 24 V AC/DC with integrated xenon tube                           | KL70-203■ | 1SFA616070R203□ |        | 1       | 0.12             |
| Blinking light, 115 V AC with integrated LED                                    | KL70-342■ | 1SFA616070R342□ |        | 1       | 0.10             |
| Flashing light, 115 V AC with integrated xenon tube                             | KL70-113■ | 1SFA616070R113□ |        | 1       | 0.11             |
| Blinking light, 230 V AC with integrated LED                                    | KL70-352■ | 1SFA616070R352□ |        | 1       | 0.10             |
| Flashing light, 230 V AC with integrated xenon tube                             | KL70-123■ | 1SFA616070R123□ |        | 1       | 0.11             |
| LED permanent light, 24 V AC/DC with integrated LED                             | KL70-305■ | 1SFA616070R305□ |        | 1       | 0.10             |
| LED rotating light, 24 V AC/DC with integrated LED                              | KL70-307■ | 1SFA616070R307□ |        | 1       | 0.10             |
| Bulbs: Bulb Ba 15d, 42mm, max 7 W for permanent or blinking light               |           |                 |        |         |                  |
| 24 V, 5 W, AC/DC                                                                | KA4-1021  | 1SFA616923R1028 |        | 10      | 0.009            |
| 115 V, 5 W, AC/DC                                                               | KA4-1118  | 1SFA616923R1118 |        | 10      | 0.009            |
| 230 V, 5 W, AC/DC                                                               | KA4-1148  | 1SFA616923R1148 |        | 10      | 0.009            |
| LED bulbs Ba 15d, 40mA                                                          |           |                 |        |         |                  |
| Available in red, green, yellow, blue and white                                 |           |                 |        |         |                  |
| 24 V AC/DC                                                                      | KA4-102■  | 1SFA616924R102□ |        | 1       | 0.009            |
| Audible modules buzzer element. 85 dB, continuous or pulsating tone, adjustable |           |                 |        |         |                  |
| 24 V AC/DC                                                                      | KB70-3001 | 1SFA616071R3001 |        | 1       | 0.11             |
| 115 V AC                                                                        | KB70-3101 | 1SFA616071R3101 |        | 1       | 0.11             |
| 230 V AC                                                                        | KB70-1201 | 1SFA616071R1201 |        | 1       | 0.12             |



# Signal towers



KT70-10...

1SFC151510F0001



KA70-1001

1SFC151511F0001



KA70-1034

1SFC151512F0001

| Description                                                                    | Type      | Order code      |  | Pkg<br>qty | Weight<br>(1 pce)<br>Kg |
|--------------------------------------------------------------------------------|-----------|-----------------|--|------------|-------------------------|
| <b>Siren element</b>                                                           |           |                 |  |            |                         |
| Multi function, 8 diff. Tones adjustable, volume adjustable 100 dB, 115 V AC   | KS70-1104 | 1SFA616073R1104 |  | 1          | 0.13                    |
| Multi function, 8 diff. Tones adjustable, volume adjustable 100 dB, 230 V AC   | KS70-1204 | 1SFA616073R1204 |  | 1          | 0.12                    |
| Multi function, 7 diff. Tones adjustable, volume adjustable, 100 dB, 24 V DC   | KS70-2004 | 1SFA616073R2004 |  | 1          | 0.12                    |
| Multi function, 8 diff. Tones adjustable, volume adjustable 100 dB, 24 V AC/DC | KS70-3004 | 1SFA616073R3004 |  | 1          | 0.12                    |
| Continuous tone alternating 108 dB, 24 V DC                                    | KS70-2002 | 1SFA616073R2002 |  | 1          | 0.15                    |
| <b>Terminal elements</b>                                                       |           |                 |  |            |                         |
| For tube mounting, including cap                                               | KT70-1001 | 1SFA616075R1001 |  | 1          | 0.15                    |
| For bracket or base, including cap                                             | KT70-1002 | 1SFA616075R1002 |  | 1          | 0.15                    |
| <b>Special parts</b>                                                           |           |                 |  |            |                         |
| <b>Contact box</b>                                                             |           |                 |  |            |                         |
| Cable exit at side                                                             | KA70-1001 | 1SFA616077R1001 |  | 1          | 0.07                    |
| Magnetic base                                                                  | KA70-1002 | 1SFA616077R1002 |  | 1          | 0.07                    |
| <b>Base with tube</b>                                                          |           |                 |  |            |                         |
| D=25 mm L=110 mm                                                               | KA70-1011 | 1SFA616077R1011 |  | 1          | 0.06                    |
| <b>Base for tube</b>                                                           |           |                 |  |            |                         |
| D=25 mm, plastic                                                               | KA70-1012 | 1SFA616077R1012 |  | 1          | 0.03                    |
| D=25 mm, metal                                                                 | KA70-1013 | 1SFA616077R1013 |  | 1          | 0.32                    |
| <b>Tube, anodized aluminum</b>                                                 |           |                 |  |            |                         |
| D=25 mm L=250 mm                                                               | KA70-1021 | 1SFA616077R1021 |  | 1          | 0.08                    |
| D=25 mm L=400 mm                                                               | KA70-1022 | 1SFA616077R1022 |  | 1          | 0.12                    |
| D=25 mm L=800 mm                                                               | KA70-1023 | 1SFA616077R1023 |  | 1          | 0.24                    |
| <b>Bracket</b>                                                                 |           |                 |  |            |                         |
| 1-sided mounting                                                               | KA70-1031 | 1SFA616077R1031 |  | 1          | 0.07                    |
| 2-sided mounting                                                               | KA70-1032 | 1SFA616077R1032 |  | 1          | 0.07                    |
| For tube mounting                                                              | KA70-1033 | 1SFA616077R1033 |  | 1          | 0.07                    |
| For surface mounting                                                           | KA70-1034 | 1SFA616077R1034 |  | 1          | 0.07                    |

# Signal beacons



1SFC151519P001



KASB-100

1SFC151514P001

### Description

| Colors                       | Red | Green | Yellow | Blue | Clear |
|------------------------------|-----|-------|--------|------|-------|
| Replace ■ in type with       | R   | G     | Y      | L    | C     |
| Replace □ in order code with | 1   | 2     | 3      | 4    | 8     |

| Description | Type | Order code | Pkg qty | Weight (1pce) Kg |
|-------------|------|------------|---------|------------------|
|-------------|------|------------|---------|------------------|

#### Light element: Available in red, green, yellow, blue and clear

|                                                      |          |                 |   |      |
|------------------------------------------------------|----------|-----------------|---|------|
| Permanent light, 12-240 V AC/DC. For Bulb BA 15d     |          |                 |   |      |
| Bulb not included                                    | KSB-401■ | 1SFA616080R401□ | 1 | 0.13 |
| Flashing light, 24 V DC. With integrated xenon tube  | KSB-203■ | 1SFA616080R203□ | 1 | 0.14 |
| Flashing light, 115 V AC. With integrated xenon tube | KSB-113■ | 1SFA616080R113□ | 1 | 0.14 |
| Flashing light, 230 V AC. With integrated xenon tube | KSB-123■ | 1SFA616080R123□ | 1 | 0.14 |

#### Light element LED: Available in red, green and yellow

|                                                      |          |                 |   |      |
|------------------------------------------------------|----------|-----------------|---|------|
| LED permanent light, 24 V AC/DC. With integrated LED | KSB-305■ | 1SFA616080R305□ | 1 | 0.14 |
| LED blinking light, 24 V AC/DC. With integrated LED  | KSB-306■ | 1SFA616080R306□ | 1 | 0.14 |
| LED rotation light, 24 V AC/DC. With integrated LED  | KSB-307■ | 1SFA616080R307□ | 1 | 0.14 |

#### Special parts

|                   |          |                 |   |       |
|-------------------|----------|-----------------|---|-------|
| Anti-twist device | KASB-100 | 1SFA616087R1000 | 1 | 0.005 |
|-------------------|----------|-----------------|---|-------|

#### Bulbs for signal beacons max 10 W. For permanent light Bulb Ba 15d, 52mm

|                          |          |                 |    |       |
|--------------------------|----------|-----------------|----|-------|
| 12 V, 7 W, AC/DC         | KA3-1018 | 1SFA616922R1018 | 10 | 0.011 |
| 24 V, 7 W, AC/DC         | KA3-1028 | 1SFA616922R1028 | 10 | 0.011 |
| 115 V, 7 W, AC/DC        | KA3-1118 | 1SFA616922R1118 | 10 | 0.011 |
| 220-260 V, 7-10 W, AC/DC | KA3-1148 | 1SFA616922R1148 | 10 | 0.011 |

# Technical data

## Signal towers and signal beacons

### Signal towers K70

| Technical specifications                     |                                              |                             |          |      |
|----------------------------------------------|----------------------------------------------|-----------------------------|----------|------|
| Housing and accessories                      | Polyamide, high impact, black                |                             |          |      |
| Dome                                         | Polycarbonate, transparent                   |                             |          |      |
| Fixing                                       | Base mounting, tube Ø 25mm, bracket mounting |                             |          |      |
| Socket                                       | B 15 d, for bulb max. 7W                     |                             |          |      |
| Connection                                   | Screw connection up to 2.5 mm²               |                             |          |      |
| Number of modules possible 2-sided bracket   | max. 5                                       | max. 10 elements            |          |      |
| Degrees of protection                        |                                              |                             |          |      |
| Light elements                               | IP 54                                        | UL type 5                   |          |      |
| Audible elements                             | IP 54                                        | UL type 5                   |          |      |
| Electrical data                              |                                              |                             |          |      |
| Permanent light element                      | 12-240 V AC/DC                               |                             |          |      |
| Bulb socket B 15 d, max 7 W                  | Bulb not included                            |                             |          |      |
| <b>Flashing light element</b>                | 24 V                                         | 115 V                       | 230 V    |      |
|                                              | DC                                           | AC                          | AC       |      |
|                                              | Flash frequency                              | 1 Hz                        | 1 Hz     | 1 Hz |
|                                              | Flash energy                                 | 2 Ws                        | 2 Ws     | 2 Ws |
|                                              | Life duration                                | 4 x 10 <sup>6</sup> flashes |          |      |
| Current consumption reduced for AS-Interface | 125 mA                                       |                             |          |      |
|                                              | 80 mA                                        | 20mA                        | 35 mA    |      |
| Starting current                             | < 0.5 A at 24 V                              |                             |          |      |
| <b>LED permanent light element</b>           | 24 V                                         | 115 V                       |          |      |
|                                              | AC/DC                                        | AC                          | 230 V AC |      |
|                                              | Life duration                                | 100 000 hours               |          |      |
|                                              | Current consumption                          | 45 mA                       | 25mA     | 25mA |
| Starting current                             | < 0.5 A at 24 V                              |                             |          |      |
| <b>LED blinking light element</b>            | 24 V                                         | 115 V                       |          |      |
|                                              | AC/DC                                        | AC                          | 230 V AC |      |
|                                              | Life duration                                | 100 000 hours               |          |      |
|                                              | Current consumption                          | 25 mA                       | 25mA     | 25mA |
|                                              | Starting current                             | < 0.5 A at 24 V             |          |      |
| Blink frequency                              | c. 1 Hz                                      | c. 1 Hz                     | c. 1 Hz  |      |
| <b>LED rotation light element</b>            | 24 V, AC/DC                                  |                             |          |      |
|                                              | Life duration                                | 100 000 hours               |          |      |
|                                              | Current consumption                          | 70 mA                       |          |      |
|                                              | Starting current                             | < 0.5 A at 24 V             |          |      |
|                                              | Rotation frequency                           | c. 120 r.p.m.               |          |      |
| Temperature                                  |                                              |                             |          |      |
| Ambient temperature during operations        | -20 to +50 °C                                |                             |          |      |

### Signal beacons KSB

| Technical specifications              |                                                            |          |          |
|---------------------------------------|------------------------------------------------------------|----------|----------|
| Housing and accessories               | PC/ABS-blend, high impact, black                           |          |          |
| Dome                                  | Polycarbonate, transparent                                 |          |          |
| Fixing                                | Installation mounting for Ø 37mm, (PG 29)                  |          |          |
| Bulb socket                           | B 15 d, for bulb max. 10W                                  |          |          |
| Bulb change                           | Via rear access with bayonet mechanism (Bulb not included) |          |          |
| Connection                            | Screw connection max 2.5 mm <sup>2</sup>                   |          |          |
| Degrees of protection                 | IP 65, UL type 5                                           |          |          |
| Electrical data                       |                                                            |          |          |
| Permanent light element               |                                                            |          |          |
| Operating voltage                     | max. 250 V                                                 |          |          |
| Life duration                         | 100 000 hours                                              |          |          |
| Bulb socket B 15 d, max 10 W          | Bulb not included                                          |          |          |
| LED version: Permanent light          | 24 V, AC/DC                                                |          |          |
| Life duration                         | 100 000 hours                                              |          |          |
| Current consumption                   | 45 mA                                                      |          |          |
| Blinking light element                | 24 V, AC/DC                                                |          |          |
| Life duration                         | 100 000 hours                                              |          |          |
| Current consumption                   | 25 mA                                                      |          |          |
| Rotation light element                | 24 V, AC/DC                                                |          |          |
| Life duration                         | 100 000 hours                                              |          |          |
| Current consumption                   | 70 mA                                                      |          |          |
| Starting current                      | < 0.5 A                                                    |          |          |
| Flashing light element                |                                                            |          |          |
| Operating voltage                     | 24 V AC/DC                                                 | 115 V AC | 230 V AC |
| Flash frequency                       | 1 Hz                                                       | 1 Hz     | 1 Hz     |
| Flash energy                          | 2 Ws                                                       | 2 Ws     | 2 Ws     |
| Life duration                         | 4 x 10 <sup>6</sup> flashes                                |          |          |
| Current consumption                   | 125 mA                                                     | 20mA     | 35 mA    |
| Starting current                      | < 0.5 A                                                    | < 0.5 A  | < 0.5 A  |
| Temperature                           |                                                            |          |          |
| Ambient temperature during operations | -20 to +50 °C                                              |          |          |