

# Visual Alarm Device

## Series FL40, EN54 Part 23



www.stahl.de



17497E00

- > Visual alarm device for fire alarm systems
- > CPR compliant
- > EN54 Part 23
- > Robust polycarbonate lens cover
- > Flame retardant ABS back box
- > High intensity Xenon flash
- > Reliable and simple to install
- > Low current consumption
- > Large coverage volume as per EN 54 part 23
- > Cost effective solution / cost effective fire alarm beacon

FL40 VDS devices are certified to the product standard EN 54 part 23 and the construction product regulation for use as a visual alarm device as part of a fire alarm system.

### Approvals

|              |                     |   |
|--------------|---------------------|---|
| Certificates | <br>0086-CPR-637384 | Construction products regulation 305/2011/EU in respect of EN 54-23 : 2010      |
|              | <br>KM 637383       | BS EN 54-23 : 3010  |
|              |                     | Cert No. G 28714<br>EN 54-23 : 2010, VdS 2344 : 2012-07, Vds 2504 : 1996-12/5.6 |

**WebCode FL40B**

# Visual Alarm Device

## Series FL40, EN54 Part 23



### Selection Table

| Version   | Enclosure colour  | Flash energy | Rated operational voltage | Lens colour | Order number             | Art. no.      | Weight<br>kg |
|---|-------------------|--------------|---------------------------|-------------|--------------------------|---------------|--------------|
| FL40 Xenon Strobe, CE, CPR, VDS and Kitemark device | red normal (RN)   | 5 Joule      | 24 V DC                   | clear       | <b>FL40/D50/C/RN/VDS</b> | <b>204977</b> | 0.260        |
|   |                   |              |                           | red         | <b>FL40/D50/R/RN/VDS</b> | <b>205000</b> | 0.260        |
|   | white normal (WN) | 5 Joule      | 24 V DC                   | clear       | <b>FL40/D50/C/WN/VDS</b> | <b>204979</b> | 0.260        |
|   |                   |              |                           | red         | <b>FL40/D50/R/WN/VDS</b> | <b>211905</b> | 0.260        |

### Technical Data

#### Electrical data

|                           |                                 |
|---------------------------|---------------------------------|
| Rated operational voltage | 24 V DC                         |
| Current consumption       | 306 mA                          |
| Operational parameters    | ±10 % of nominal                |
| Line monitoring           | Monitoring via reverse polarity |

#### Luminous characteristics

|                       |                                       |
|-----------------------|---------------------------------------|
| Light source          | Xenon flash tube                      |
| Flash energy          | 5 Joule                               |
| Flash rate            | 1/s                                   |
| Flash synchronisation | Multiple beacons are not synchronised |
| Lens colour           | Red or clear                          |

#### Ambient conditions

|                             |                     |
|-----------------------------|---------------------|
| Operating temperature range | -25 ... +40 °C      |
| Storage temperature         | -40 ... +70 °C      |
| Max. relative humidity      | 90 % ± 3 % at 40 °C |

#### Mechanical data

|                      |                          |
|----------------------|--------------------------|
| Material             |                          |
| Enclosure            | ABS, flame retardant     |
| Lens                 | Polycarbonate            |
| Assembly parts       | Stainless steel fixings  |
| Labels               | Polyester foil, adhesive |
| Degree of protection | IP65 acc. IEC 60529      |

#### Mounting / Installation

|            |  |
|------------|--|
| Assembly   | All units are supplied separate from the back box for ease of installation. The back box must be mounted with the two cable entries at the top or bottom. The back box should be mounted to a reasonably flat surface or to a standard junction box, using any of the internal mounting holes. A gasket is supplied, should the surface be uneven, or if the unit is to be used in wet conditions. To maintain the integrity of the weather seal, the cable must be fitted using a suitable sealed gland. The installation is completed by fitting the beacon onto the back box by means of the supplied screws. |
| Connection | 2.5 mm <sup>2</sup> terminals  |

E5

# Visual Alarm Device

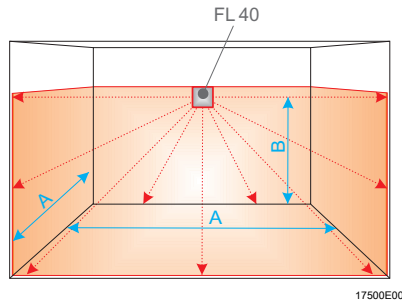
## Series FL40, EN54 Part 23



### Coverage Volume

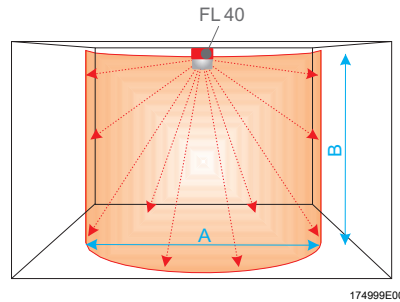
#### Wall Mounted Devices

Cuboid coverage area with minimum 0.4 Lux as per EN54-23



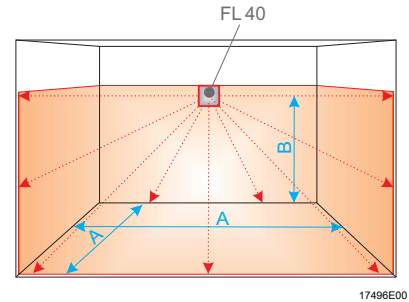
#### Ceiling Mounted Devices

Cylindrical coverage area with minimum 0.4 Lux as per EN54-23



#### Open Class Devices

Coverage volume specified by manufacturer with minimum 0.4 Lux as per EN54-23



A - Maximum width of cuboid or diameter of cylindrical coverage area  
 B - Maximum installation height of visual alarm device

#### Example

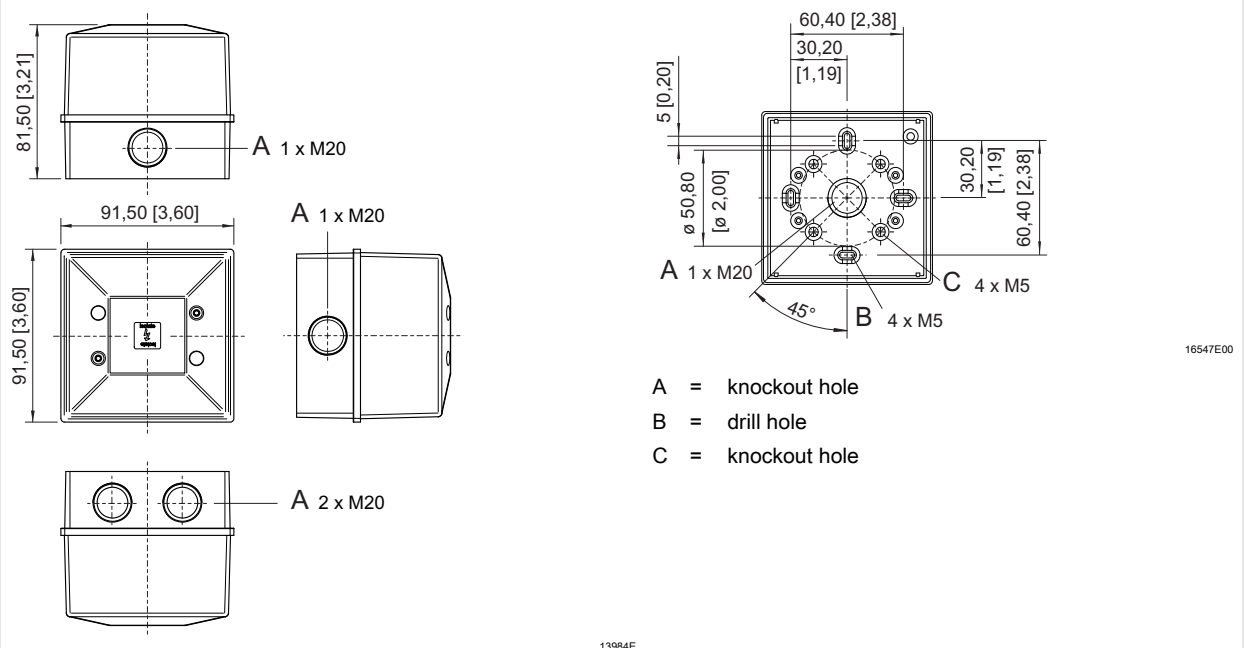
W-3 (B) - 9.5 (A)

Certified coverage areas

|                 | FL40 clear lens | FL40 red lens |
|-----------------|-----------------|---------------|
| Ceiling mounted | C-9-12          | C-3-6         |
| Wall mounted    | W-3-9.5         | W-2.5-2.7     |
| Open class      | O-8.8-8.8       | O-5-2.7       |

Note: Each device is marked for ceiling, wall and open class

### Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



- A = knockout hole
- B = drill hole
- C = knockout hole

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.