

# Industrial Combination Signal - 110 dB (A) / 5 Joule

## Series YL50



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- > Max sound output 110 dB (A) / 1 m
- > IP65 rated as standard
- > Strobe available in 2.5 and 5 Joules
- > 32 selectable tones meeting international regulations
- > Flame retardant ABS enclosure
- > Stainless steel fixings
- > 2 stage alarm
- > Lens available in six different colours
- > Complies with BS 5839
- > Low current consumption



05517E00

Yodalight range  
Multi-purpose audible and visual signalling device designed for use in industrial applications.

### Approvals

| Certificates       |  |
|--------------------|--|
|                    | UL 1638, UL 464  |
| <br>0086-CPD-96705 | BS EN 54-3 : 2001 incorporates amendment A 1 : 2002 + A2 : 2006  |
| <br>KM 91259       | BS EN 54-3 : 2001 incorporates amendment A 1 : 2002 +A2 : 2006   |
|                    | VdS 2504 (12/96), VdS 2203 (03/01), VdS 2344 (12/05), Cert No. G28702, 2301 (07 / 01) : G28714, VdS approval applies to selected models only. Contact sales for details. DIN EN 54, part 3 (10/01) |

WebCode YL50A

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**Selection Table**

| Version   | Enclosure colour | Flash energy     | Rated operational voltage | Lens colour                                       | Order number     | Art. no.         | Weight<br>kg |                      |                      |        |
|---|------------------|------------------|---------------------------|---|------------------|------------------|--------------|----------------------|----------------------|--------|
| YL50 Sounder/Strobe combination, BS EN 54-3, standard devices | red flame (RF)   | 5 Joule          | 24 V DC                   | amber   | YL50/D50/A/RF/WR | 204815           | 1.010        |                      |                      |        |
|   |                  |                  |                           | red   | YL50/D50/R/RF/WR | 204835           | 1.010        |                      |                      |        |
|   |                  |                  |                           | green   | YL50/D50/G/RF/WR | 204825           | 1.010        |                      |                      |        |
|   |                  |                  |                           | opal  | YL50/D50/O/RF/WR | 212038           | 1.010        |                      |                      |        |
|   |                  |                  |                           | blue  | YL50/D50/B/RF/WR | 204821           | 1.010        |                      |                      |        |
|   |                  |                  |                           | clear   | YL50/D50/C/RF/WR | 204823           | 1.010        |                      |                      |        |
|   |                  |                  |                           | 115 V AC  | amber            | YL50/L50/A/RF/WR | 204609       | 1.090                |                      |        |
|   |                  |                  | red                       |   | YL50/L50/R/RF/WR | 204619           | 1.090        |                      |                      |        |
|   |                  |                  | green                     |   | YL50/L50/G/RF/WR | 212039           | 1.090        |                      |                      |        |
|   |                  |                  | opal                      |   | YL50/L50/O/RF/WR | 212040           | 1.090        |                      |                      |        |
|   |                  |                  | blue                      |   | YL50/L50/B/RF/WR | 204613           | 1.090        |                      |                      |        |
|   |                  |                  | clear                     |   | YL50/L50/C/RF/WR | 212041           | 1.090        |                      |                      |        |
|   |                  |                  | 230 V AC                  |   | amber            | YL50/N50/A/RF/WR | 204627       | 1.090                |                      |        |
|   |                  |                  |                           | red   | YL50/N50/R/RF/WR | 204646           | 1.090        |                      |                      |        |
|   |                  |                  |                           | green   | YL50/N50/G/RF/WR | 212042           | 1.090        |                      |                      |        |
|   |                  |                  |                           | opal  | YL50/N50/O/RF/WR | 204639           | 1.090        |                      |                      |        |
|   |                  |                  |                           | blue  | YL50/N50/B/RF/WR | 204633           | 1.090        |                      |                      |        |
|   |                  |                  |                           | clear   | YL50/N50/C/RF/WR | 204635           | 1.090        |                      |                      |        |
|   |                  |                  |                           | YL50 Sounder/Strobe combination, UL certification | red flame (RF)   | 5 Joule          | 24 V DC      | amber                | YL50/D50/A/RF/UL     | 204656 |
|   |                  |                  | red                       |   |                  |                  |              | YL50/D50/R/RF/UL     | 204660               | 1.010  |
|   |                  |                  | green                     |   |                  |                  |              | YL50/D50/G/RF/UL     | 209662               | 1.010  |
| opal  | YL50/D50/O/RF/UL | 212043           | 1.010                     |   |                  |                  |              |                      |                      |        |
| blue  | YL50/D50/B/RF/UL | 204658           | 1.010                     |   |                  |                  |              |                      |                      |        |
| clear   | YL50/D50/C/RF/UL | 204659           | 1.010                     |   |                  |                  |              |                      |                      |        |
| 115 V AC  | amber            | YL50/L50/A/RF/UL | 204662                    |   |                  |                  |              | 1.090                |                      |        |
|   | red              | YL50/L50/R/RF/UL | 204663                    |   |                  |                  | 1.090        |                      |                      |        |
|   | green            | YL50/L50/G/RF/UL | 212044                    |   |                  |                  | 1.090        |                      |                      |        |
|   | opal             | YL50/L50/O/RF/UL | 212045                    |   |                  |                  | 1.090        |                      |                      |        |
|   | blue             | YL50/L50/B/RF/UL | 212046                    |   |                  |                  | 1.090        |                      |                      |        |
|   | clear            | YL50/L50/C/RF/UL | 205456                    |   |                  |                  | 1.090        |                      |                      |        |
|   | 230 V AC         | amber            | YL50/N50/A/RF/UL          |   |                  |                  | 204664       | 1.090                |                      |        |
| red   |                  | YL50/N50/R/RF/UL | 204666                    |   |                  |                  | 1.090        |                      |                      |        |
| green   |                  | YL50/N50/G/RF/UL | 209669                    |   |                  |                  | 1.090        |                      |                      |        |
| opal  |                  | YL50/N50/O/RF/UL | 212047                    |   |                  |                  | 1.090        |                      |                      |        |
| blue  |                  | YL50/N50/B/RF/UL | 209667                    |   |                  |                  | 1.090        |                      |                      |        |
| clear   |                  | YL50/N50/C/RF/UL | 204665                    |   |                  |                  | 1.090        |                      |                      |        |
| YL50 Sounder/Strobe combination, VDS certification            |                  | red flame (RF)   | 5 Joule                   |   |                  |                  | 24 V DC      | amber                | YL50/D50/A/RF/WR/VDS | 212048 |
|   | red              |                  |                           |   |                  |                  |              | YL50/D50/R/RF/WR/VDS | 212049               | 1.010  |
|   | green            |                  |                           |   |                  |                  |              | YL50/D50/G/RF/WR/VDS | 212050               | 1.010  |
|   | opal             |                  |                           | YL50/D50/O/RF/WR/VDS                              | 212051           | 1.010            |              |                      |                      |        |
|   | blue             |                  |                           | YL50/D50/B/RF/WR/VDS                              | 212052           | 1.010            |              |                      |                      |        |
|   | clear            |                  |                           | YL50/D50/C/RF/WR/VDS                              | 212053           | 1.010            |              |                      |                      |        |

Note Other voltages and variants are available. Please contact your local sales office for more details

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## Series YL50

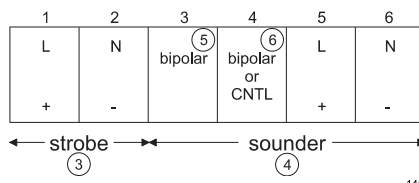


### Technical Data

#### Electrical data

|                           |   |
|---------------------------|---|
| Rated operational voltage | 12, 24 or 48 V DC<br>115 or 230 V AC $\pm 10\%$<br>12 V DC versions will produce approx. 6 dB less output   |
| Current consumption       | 24 V DC - 284 mA*<br>115 V AC - 265 mA*<br>230 V - 257 mA*<br>*at tone 1<br>**Voltages do not apply to multi stage units  |
| Line monitoring           | line monitoring excludes additional voltage options:<br><ul style="list-style-type: none"> <li>• 3 wire, 2 stage or 2 wire, single stage: monitor via reverse polarity</li> <li>• 2 wire, 2 stage i.e. bi-polar inputs: monitor via threshold (applied voltage &lt; 1 V)</li> </ul> |

#### Schematic



#### Combination units

##### Legend

- 3 = Connections for strobe/beacon
- 4 = Connections for sounder/horn
- 5 = 12/24/48 or 0 V Input used for 2nd stage by supply reversal
- 6 = Used for 2nd stage by 3rd wire

#### Acoustic data

|                 |  |
|-----------------|--|
| Volume          | 110 dB (A) / 1 m<br>volume control allowing 18 dB (A) adjustment                 |
| Sound selection | via DIL switch<br>Optional independent 2nd stage via second DIL switch (DC only) |

#### Luminous Characteristics

|              |                                      |
|--------------|--------------------------------------|
| Flash energy | 2.5 or 5.0 J                         |
| Lens colour  | amber, red, green, opal, blue, clear |

#### Ambient conditions

|                             |  |
|-----------------------------|--|
| Operating temperature range | UL: - 35 ... + 66 °C<br>EN 54-3: - 25 ... + 55 °C<br>VdS: - 25 ... + 40 °C |
| Storage temperature         | - 40 ... + 70 °C   |
| Max. relative humidity      | 90 % at 40 °C  |

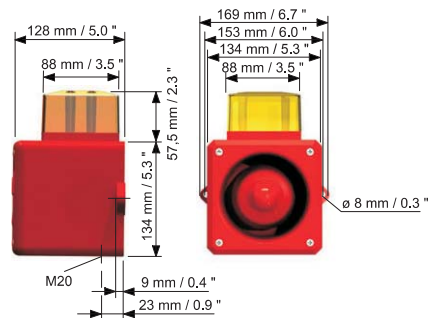
#### Mechanical data

|                      |  |
|----------------------|--|
| Material             |  |
| Enclosure            | ABS, flame retardant                   |
| Lens                 | polycarbonate plastic, flame retardant |
| Assembly parts       | stainless steel fixings                |
| Degree of protection | IP 65 standard on all units            |

#### Assembly / Installation

|          |   |
|----------|---|
| Assembly | Should be mounted to a reasonably flat wall or bulkhead of suitable material using the lugs projecting from the side of the case. The lugs are bored 8 mm on 153 mm centres. The minimum recommended length of fixing screws is 25 mm. To maintain the integrity of the weather seal, the cable entry must be fitted using a suitable sealed gland. |
|----------|---|

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



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.