



Lamp testing module,  
groups of 2 diodes with common cathode



Light indicator module,  
with common return line

### Lamp testing modules

Lamp testing modules for checking lamps that are installed and ready for operation:

- Individual checking of separate lamps (EMG...-E/LP)
- Centrally controlled checking of lamps (EMG...-M/LP)

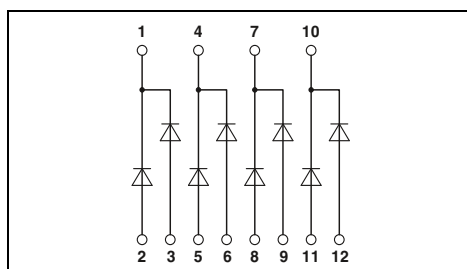
### Display modules

- Light indicator modules facilitate the monitoring of processes on electronic control systems during troubleshooting

#### Notes:

Further circuit diagrams can be found in the data sheet at [phoenixcontact.net/products](http://phoenixcontact.net/products).

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#### Technical data

|                                    |                         |                |
|------------------------------------|-------------------------|----------------|
| Diodes                             | 8E/16E                  | 14M/32M        |
| Max. operating voltage $U_{max}$   | 250 V AC                | 250 V AC       |
| Peak reverse voltage per diode     | 1300 V                  | 1300 V         |
| Reverse current per diode          | $\leq 5 \mu A$          | $\leq 5 \mu A$ |
| Conducting state voltage per diode | approx. 0.8 V           | approx. 0.8 V  |
| Conducting state current per diode |                         |                |
|                                    | with single load        | 0.7 A          |
|                                    | with simultaneous loads | 0.4 A          |

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| Input                                     |                                                                   |
| Current required per light indicator      |                                                                   |
| General data                              |                                                                   |
| Ambient temperature range                 | -20 °C ... 50 °C                                                  |
| Rated insulation voltage                  | 300 V (according to EN 50178)                                     |
| Pollution degree / Surge voltage category | III, basic insulation (as per EN 50178)                           |
| Pollution degree / Surge voltage category | 2 (according to EN 50178)                                         |
| Mounting position                         | any                                                               |
| Mounting                                  | Can be aligned without spacing                                    |
| Dimensions H / D                          | 75 / 55 mm                                                        |
| Screw connection solid / stranded / AWG   | 0.2 ... 4 mm <sup>2</sup> / 0.2 ... 2.5 mm <sup>2</sup> / 24 - 12 |
| Conformance / approvals                   |                                                                   |
| Conformance                               | CE-compliant                                                      |

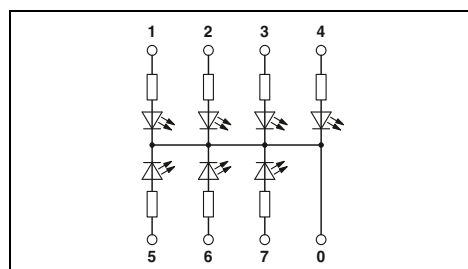
#### Ordering data

| Description                                            | Housing width | Type              | Order No. | Pcs. / Pkt. |
|--------------------------------------------------------|---------------|-------------------|-----------|-------------|
| Lamp testing module, for individual wiring             |               |                   |           |             |
| 4-pair                                                 | 45 mm         | EMG 45-DIO 8E/LP  | 2954798   | 5           |
| 8-pair                                                 | 90 mm         | EMG 90-DIO 16E/LP | 2954808   | 5           |
| Lamp testing module, with common control               |               |                   |           |             |
| 7-pair                                                 | 45 mm         | EMG 45-DIO14M/LP  | 2950132   | 5           |
| 16-pair                                                | 90 mm         | EMG 90-DIO 32M/LP | 2954785   | 5           |
| Light indicator module, 110 ... 230 V AC input voltage |               |                   |           |             |
| 7 glow lamps                                           | 22.5 mm       |                   |           |             |
| Light indicator module, 24 V DC input voltage          |               |                   |           |             |
| 7 LEDs                                                 | 22.5 mm       |                   |           |             |
| 14 LEDs                                                | 45 mm         |                   |           |             |

#### Accessories

|                  |            |         |    |
|------------------|------------|---------|----|
| Equipment marker | EMG-GKS 12 | 2947035 | 50 |
|------------------|------------|---------|----|

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#### Technical data

|              |                |
|--------------|----------------|
| LA 7S        | LED 7S/LED 14S |
|              |                |
| approx. 1 mA | approx. 3 mA   |

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| Ambient temperature range                 | -20 °C ... 45 °C                                                  |
| Rated insulation voltage                  | III, basic insulation (as per EN 50178)                           |
| Pollution degree / Surge voltage category | 2 (according to EN 50178)                                         |
| Mounting position                         | any                                                               |
| Mounting                                  | Can be aligned without spacing                                    |
| Dimensions H / D                          | 75 / 47.5 mm                                                      |
| Screw connection solid / stranded / AWG   | 0.2 ... 4 mm <sup>2</sup> / 0.2 ... 2.5 mm <sup>2</sup> / 24 - 12 |
| Conformance / approvals                   |                                                                   |
| Conformance                               | CE-compliant                                                      |

#### Ordering data

| Type              | Order No. | Pcs. / Pkt. |
|-------------------|-----------|-------------|
| EMG 22-LA 7S/230  | 2949677   | 10          |
| EMG 22-LED 7S/24  | 2952305   | 10          |
| EMG 45-LED 14S/24 | 2952334   | 5           |

#### Accessories

|                  |            |         |    |
|------------------|------------|---------|----|
| Equipment marker | EMG-GKS 12 | 2947035 | 50 |
|------------------|------------|---------|----|