

## ELSA-2 DL 225 OP 110° 1800 840 MD IR WH

**Item number** E010299032  
**GTIN** 4015120299032

|                    |              |               |           |              |
|--------------------|--------------|---------------|-----------|--------------|
| 110 V -<br>230 V ~ | IP20<br>IP44 | LED<br>4000 K | CRI<br>80 | CQS<br>80-85 |
|--------------------|--------------|---------------|-----------|--------------|



### Technical data

| GENERAL  |                                      |
|--|--------------------------------------|
| Device category                                  | Downlight                            |
| User interface                                   | IR remote control, Push button input |
| Remote controllable                              | ✓                                    |
| Conformity                                       | CE, EAC, RoHS, WEEE                  |
| Warranty   | 5 years                              |
| ATTACHMENT                                       |                                      |
| Installation type                                | Recessed mounting                    |
| Installation position                            | Ceiling                              |
| Installation dimension                           | Installation depth: 70 mm, Ø 225 mm  |
| Type of connection                               | Push terminal                        |
| Connectable wire cross section                   | 0.50 – 2.50 mm <sup>2</sup>          |
| Number of contacts                               | 5                                    |
| HOUSING  |                                      |
| Dimensions                                       | Height/Depth 60 mm, Ø 240 mm         |
| Weight   | 1230 g                               |
| Material   | powder-coated aluminium              |
| Protection type                                  | IP20                                 |
| Permissible ambient temperature                  | -20 °C...+40 °C                      |
| Relative humidity                                | 5 – 93 %, non-condensing             |
| Colour   | white, similar to RAL 9003           |
| Glow wire test in accordance with IEC 60695-2-10 | 650 °C                               |
| ELECTRICAL VERSION                               |                                      |
| Control system                                   | ON/OFF                               |
| Protection class                                 | I                                    |

### Product description

- LED downlight, 4000K with opal cover (diffuser), 18W, for ceiling mounting without additional accessories
- High light quality and system performance
- Operating device on/off, included
- Integrated COMPACT MINI motion detector with 360° field of detection
- Range of up to 8 m in diameter at a recommended installation height of 3 m (maximum installation height 5 m) for use in small rooms and passageways with no or little natural lighting
- 16-A high-performance relay (tungsten pre-contact) optimised for switching LED lighting
- Switching output for connecting additional lights
- Default settings ensure immediate operability

### Offers special product features like:

- Integrated motion detector

|                      |                            |
|----------------------|----------------------------|
| Nominal voltage      | 220 – 240 V ~ / 50 – 60 Hz |
| Stand-by consumption | < 0.5 W                    |

| LIGHT                     |         |
|---------------------------|---------|
| Diffuser                  | opal    |
| Light emission            | direct  |
| Beam angle                | 110 °   |
| Unified Glare Rating      | ≤ 25    |
| Flicker factor            | 0 %     |
| Rated output P            | 18 W    |
| Luminous flux             | 1750 lm |
| Luminous efficacy         | 97 lm/W |
| Colour temperature        | 4000 K  |
| Colour rendering index Ra | > 80    |
| Colour tolerance          | 2 SDCM  |
| Color Quality Scale       | >80     |
| L70B10 lifetime at 25°C   | 60000 h |
| Life time L70B50 at 25 °C | 60000 h |
| Life time L80B10 at 25 °C | 40000 h |
| Life time L80B50 at 25 °C | 40000 h |
| Life time L90B10 at 25 °C | 20000 h |
| Life time L90B50 at 25 °C | 20000 h |
| Photobiological safety    | RG0     |

| SENSORS                    |                   |
|----------------------------|-------------------|
| Detection angle            | 360°              |
| Detection range diagonally | Ø 8 m             |
| Detection range head-on    | Ø 5 m             |
| Field of detection         | 50 m <sup>2</sup> |

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|                                 |  |
|---------------------------------|--|
| Range adjustment                | mechanically with included cut to size lens mask |
| Recommended installation height | 2.5 m  |
| Max. mounting height            | 5 m  |
| Light measurement               | mixed light                                      |
| Level of brightness             | 10 – 2000 lx                                     |

### CHANNELS (LIGHTING / HVAC)

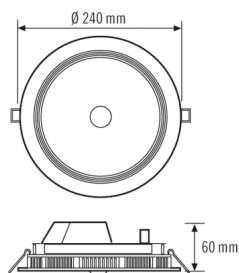
|                            |   |
|----------------------------|---|
| Number of light channels   | 1 |
| Push button input lighting | 1 |
| Push button input HVAC     | – |

|   |   |
|---|---|
| Number of parallel switchable detectors | 8   |
| Channel                                 | C1 Lighting   |
| Function                                | Switching   |
| Switching capacity                      | 230 V/50 Hz, 16 AX<br>2300 W/10 A (cos phi = 1)<br>1150 VA/5 A (cos phi = 0,5)<br>600 W LED |
| Switch contact                          | make contact / non-floating   |
| Push button input                       | ✓   |
| Impulse mode                            | ✓   |
| Switch-off delay time                   | 60 s...15 min (adjustable in steps)   |

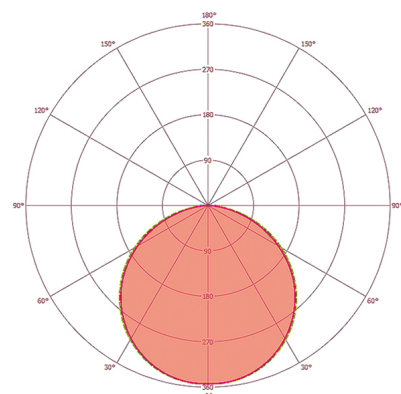
### Accessories

| Product designation             | Item number | Product description  | GTIN          |
|---------------------------------|-------------|--|---------------|
| <b>Adapter</b>                  |             |  |               |
| ELSA-2 RING 225                 | E010300264  | Adapter ring 225–265 mm for ELSA-2 series  | 4015120300264 |
| <b>Electrical accessories</b>   |             |  |               |
| JUNCTION BOX 5-POLE BK          | E010430947  | Universal junction box, black, 5-pin, 2.5 mm <sup>2</sup>  | 4015120430947 |
| <b>Mounting</b>                 |             |  |               |
| ELSA-2 MOUNTING FRAME 225 SM WH | E010300899  | Ceiling installation frame for ELSA-2 225 series   | 4015120300899 |
| <b>Remote control</b>           |             |  |               |
| ESY-Pen                         | EP10425356  | ESY-Pen and ESY-App, two tools for every task: (1) Parameterisation, (2) remote control, (3) light measurement, (4) project management | 4015120425356 |
| REMOTE CONTROL MDi/PDi          | EM10425509  | IR remote control for presence detectors and motion detectors  | 4015120425509 |

### Dimension drawing



### Light distribution



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| Field of detections | Detection range                      | Circuit diagram |
|---------------------|--------------------------------------|-----------------|
|                     | <p>■ Diagonally (A)</p> <p>∅ 8 m</p> |                 |
|                     | <p>■ Frontal (B)</p> <p>∅ 5 m</p>    |                 |

Standard with optional control via a closing button and parallel wiring of max. ten devices.

### Detailed product description

- LED downlight, 18 W for ceiling mounting
- Recessed luminaire with opal cover (diffuser)
- High-quality housing, aluminium lamp body, white powder-coated (RAL 9003)
- Can be used for ceiling mounting without additional accessories
- Colour temperature: 4000 K with the lowest colour tolerances
- Luminous flux: 1750 lm
- Rated life time L80B50 at 25 °C: 40000 h
- Operating device: on/off (included)
- Integrated COMPACT MINI motion detector with 360° field of detection
- Range of up to 8 m in diameter at a recommended installation height of 3 m (maximum installation height 5 m) for use in small rooms and passageways with no or little natural lighting
- With 16-A high-performance relay (tungsten pre-contact), ideal for switching capacitive loads such as LED lights
- Default settings ensure immediate operability
- Simple programming using remote control
- Extension of the field of detection with parallel connection of max. 8 detectors