



Helvar 320BD2 PIR Sensor Installation Guide

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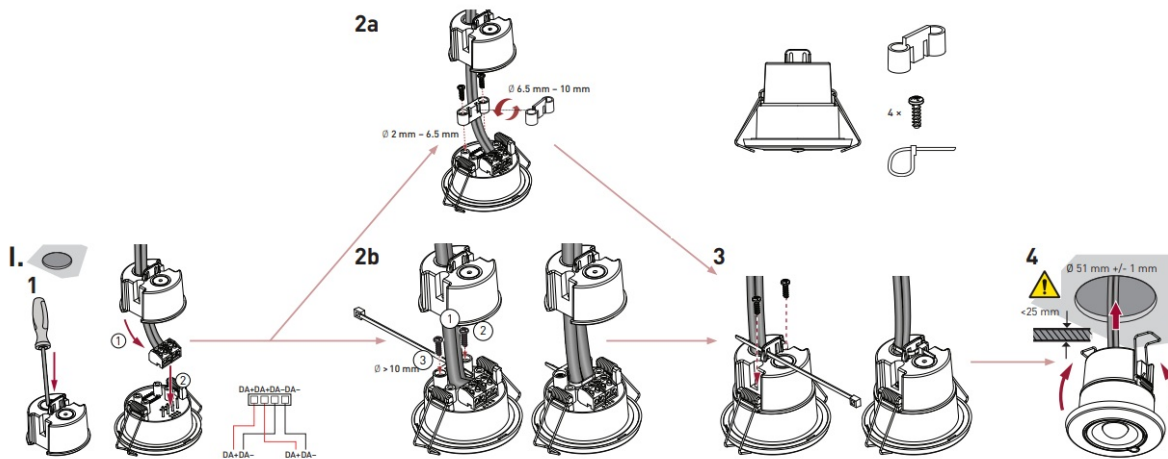
The Helvar logo consists of the word "Helvar" in white, sans-serif font, centered within a solid red rectangular background.

Helvar 320BD2 PIR Sensor



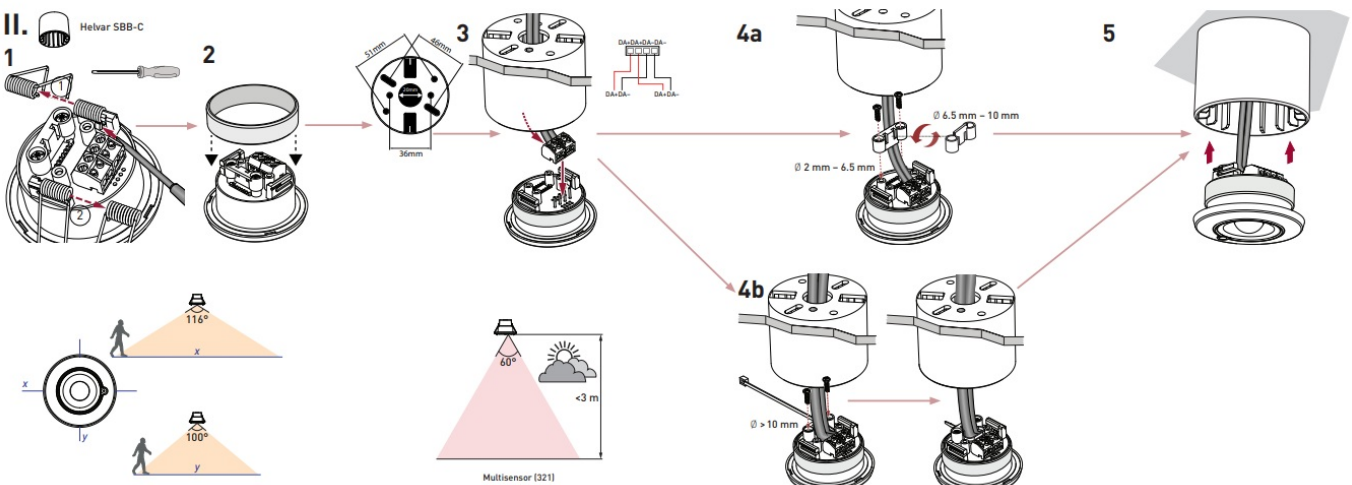
installation

IN ROOF



Note: Use a junction box in all specialist application installations, such as those where cables with enhanced insulation and insulation shields are required. Be aware that excessive force can compromise installation. Contact technical support for any further details.

WITH BOX



Technical Data

Connections

- **DALI:** Removable connector block
- **Wire section:** 0.5 mm² – 1.5 mm² solid or stranded
- **Cable rating:** All cables must be mains rated.

Electrical Data

- **DALI supply input:** 12 V – 22.5 V
- **DALI consumption:** 10 mA Max Sensors
- **Light sensor(321,321B,321D2,321BD2):** For constant-light functions
- **Presence detector:** Passive infrared (PIR) Mechanical data
- **Max. recommended mounting height:** 4 m
- **Presence detection coverage area:** 46 m² @ 2.5 m mounting height
- **Monting hole diameter:** 51 mm +/- 1mm

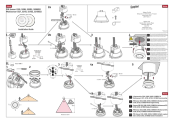
Note: If replacing the older sensor then a 52 mm to 55 mm mounting hole is acceptable.

- **Ceiling Thickness:** Maximum 25mm
- **Bezel diameter:** 66 mm
- **Recommended clearance depth:** 10 cm (with cable cover, incl. 5 cm for cabling)
- **Material (casing):** Nonflammable PC/ABS (UL94–V0)
- **Finish / Colour:** 320, 320D2, 321, 321D2
- **Semi-matt** /: White RAL 9003
- **320B, 320BD2, 321B, 321BD2:** Semi-matt
- **Anthracite grey RAL 7016 Weight:** 66.3 g
- **IP rating:** IP30 [IP20 cable cover]

Operating and storage conditions

- **Ambient temperature:** 0 °C to +50 °C
- **Relative humidity:** Max. 90 %, non-condensing
- **Storage temperature:** –10 °C to +70 °C Conformity and standards
- **DALI:** IEC62386, Parts 101, 103, and 303. 304 (for 321D2 only)
- **EMC emission:** EN 55015
- **EMC immunity:** EN 61547
- **Safety:** EN 61347-2-11
- **Environment:** Complies with WEEE and RoHS directives.
- **Compatibility:** (320D2, 320BD2, 321D2, 321BD2)
- **Router:** 950
- **Designer:** 5.8.2 or later
- **Compatibility:** (320, 320B, 321, 321B)
- **Router:** 905, 910, 920, 950
- **Designer:** 5.4.0 or later, 5.8.2 for 950
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Documents / Resources



[Helvar 320BD2 PIR Sensor](#) [pdf] Installation Guide

320, 320B, 320D2, 320BD2, 321, 321B, 321D2, 321BD2, 320BD2 PIR Sensor, 320BD2, PIR Sensor, Sensor

[Manuals+](#).