

Occupancy Detector Interface (441)

The 441 Occupancy Detector Interface allows connection of a customer-specified occupancy sensor to a DIGIDIM-DALI system. The input accepts a volt-free, normally closed contact. The prewired encapsulated circuit board is intended for mounting inside the wiring space of the sensor.

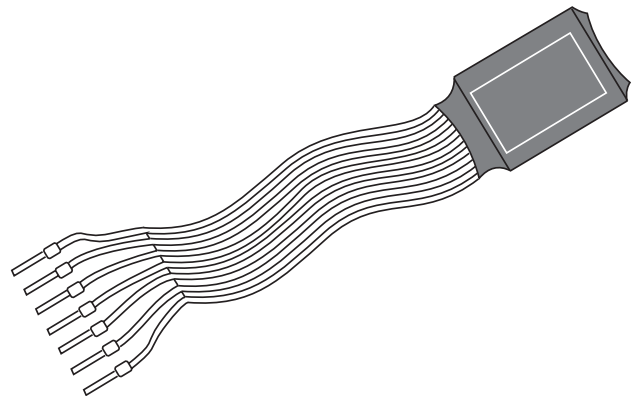
The 441 also includes a 12 V DC supply (15 mA max.) to power the sensor.

Key Features

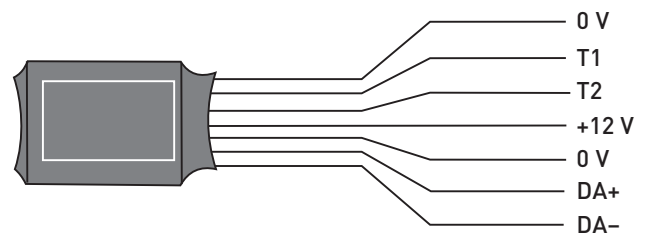
- Fits into the wiring space inside the sensor.
- Input for normally closed (NC) volt-free switch compatible with security sensors.
- Fully programmable using Toolbox and Designer software.
- Compatible with Helvar iDim range; functioning as a PIR extension sensor.

Installation Notes

- For installation in a restricted access location only.
- All cabling must be 230 V mains rated.
- Isolate the mains supply before installation.
- Do not extend input cables.
- Insulate unused inputs.



Default Functions



Connection	Cable Colour
0 V	Brown
T1	Red
T2	Orange
+12 V	Yellow
0 V	Green
DA+	Blue
DA-	Violet

Technical Data

Voltage-free switched inputs

- Connections:** 0 V input ground.
1 sensor input (normally closed).
2 for future use. Do not connect.
- Voltage at T1:** 5 V nominal with input open, must be less than 1 V closed.
- Overload protection:** ± 7 V
- Short-circuit current:** 1 mA max.
- Debounce period:** 50 ms

Connections

- DALI/switch/power:** Ribbon cable terminated with 7 ferrules
Ferrule pin \varnothing 1.2 mm
Note: To avoid interference problems, the connections must not be increased in length.

Power

- Sensor supply:** 12 V @ 15 mA max. (nonisolated)
0 V supply, common to input 0 V
- DALI consumption:** 10 mA + sensor supply mA
≤ 25 mA max.

Mechanical data

- Dimensions:** 50 mm × 20 mm × 10 mm
- Weight:** 12 g
- IP code:** IP20

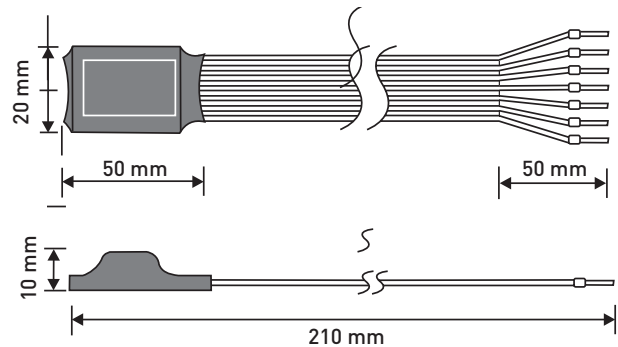
Operating conditions

- Ambient temperature:** 0 °C to +40 °C
- Relative humidity:** Max. 90 %, noncondensing
- Storage temperature:** -10 °C to +70 °C

Conformity and standards

- EMC Emission:** EN 55015
- EMC Immunity:** EN 61547
- Safety:** EN 60950
- Environment:** Complies with WEEE and RoHS directives

Dimensions



Typical Connection to Occupancy Sensor

