

Product Data Sheet

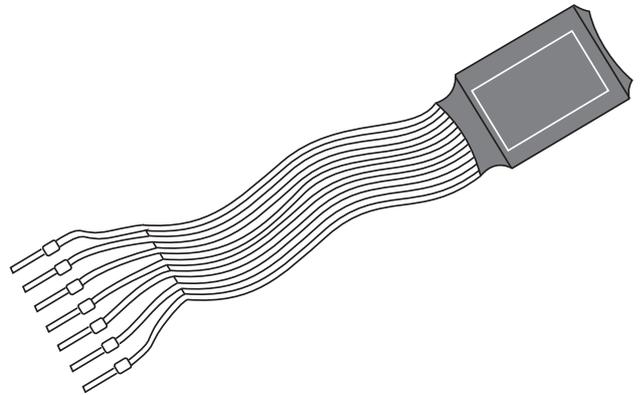
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441

Occupancy Detector Interface

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 pre-wired encapsulated circuit board is intended for mounting inside the wiring space of the sensor.

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



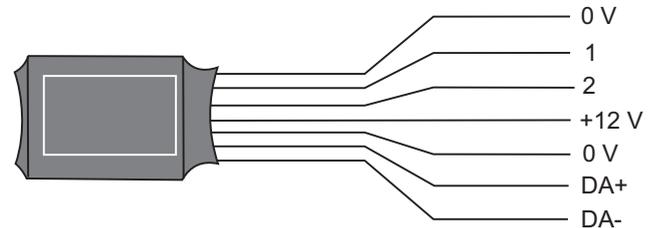
Key Features

- Fits into the wiring space behind the sensor
- Input for normally closed (NC) volt-free switch compatible with security sensors
- Fully programmable using DIGIDIM 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 and switches must be 230V mains rated
- Isolate the mains supply before installation
- Do not extend input cables
- Insulate unused inputs

Default Functions



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

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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 1: 5 V nominal with input open,
Must be less than 1 V closed

Overload protection: ± 7 V

Short-circuit current: 0.5 mA maximum

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 maximum
(non-isolated)

0 V supply, common to input 0 V

DALI consumption: 10 mA + sensor supply mA \leq 25 mA max

Operating Conditions

Ambient Temperature: -20°C to $+50^{\circ}\text{C}$

Relative Humidity: 90% max, non-condensing

Storage Temperature: -10°C ... $+70^{\circ}\text{C}$

Mechanical Data

Housing: Encapsulated printed circuit board.

Weight: 12 g

Conformity & Standards

EMC

Emission: EN 55 015

Immunity: EN 61 547

Safety

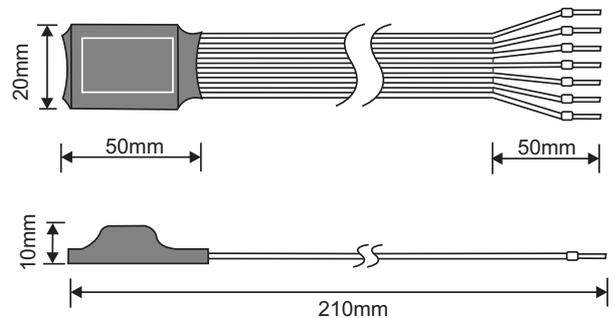
Safety: EN 60 950

IP Rating: 20

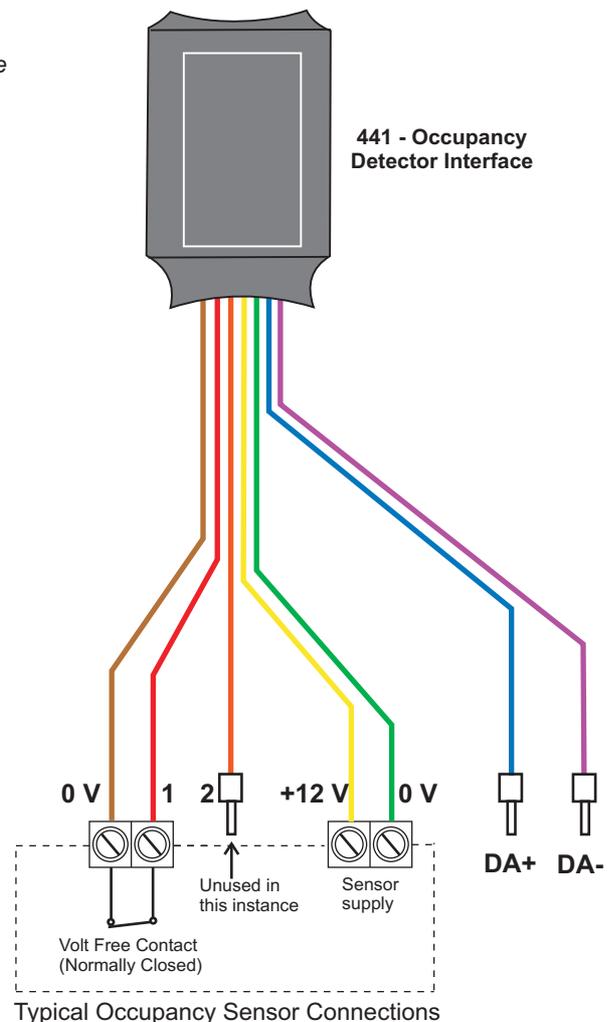
Environment

Complies with WEEE and RoHS directives

Dimensions



Typical Connection to Occupancy Sensor



Data subject to change without notice

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Helvar
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