EAE

TECHNOLOGY

DALI-2
Product Catalogue

EAE

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INDEX
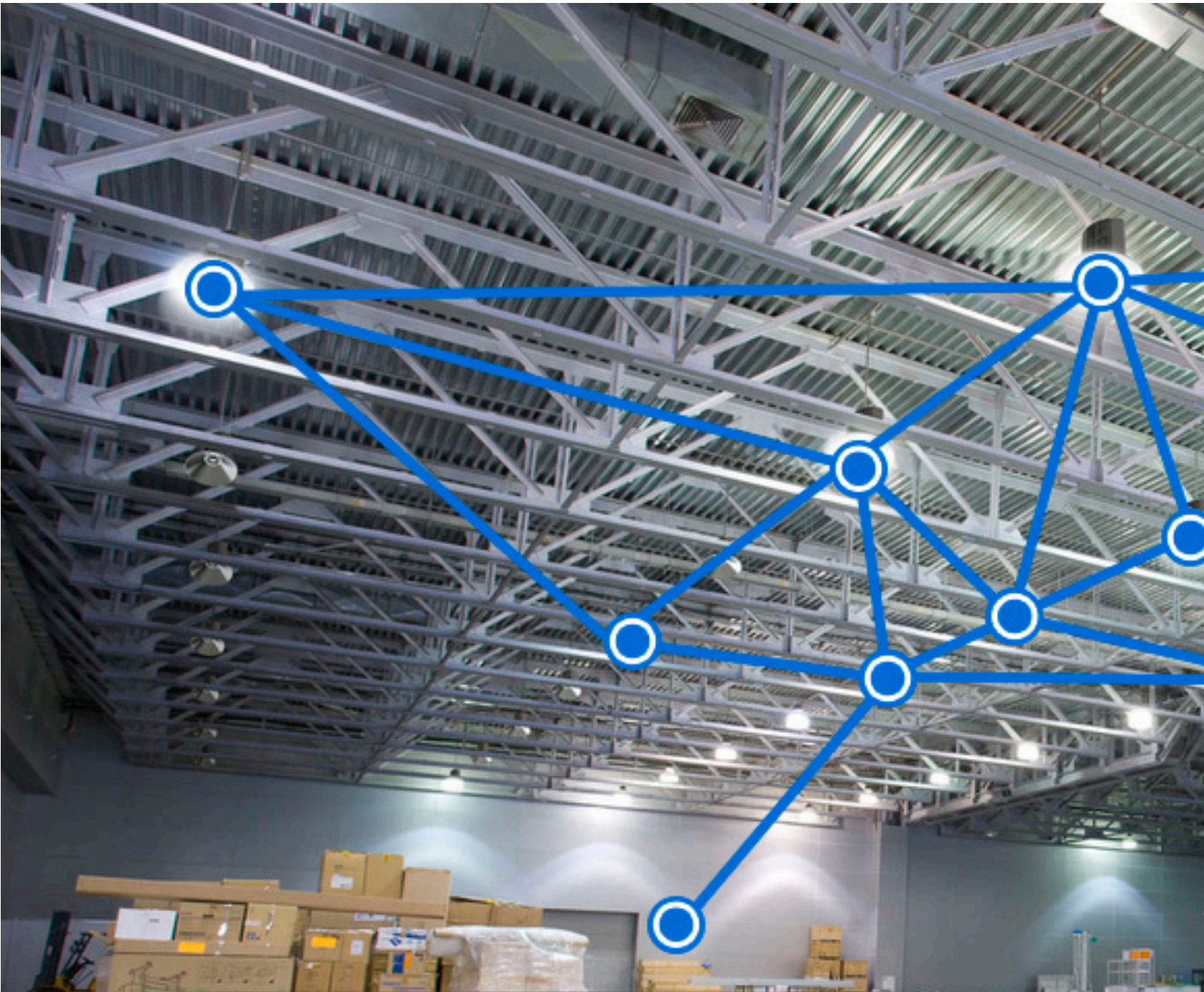
About DALI-2

DALI-2 refers to the latest version of the DALI protocol.

Compared with DALI version-1, there are many new commands and features in DALI-2. While DALI version-1 only included control gear, DALI-2 includes control devices such as application controllers and input devices (e.g. sensors), as well as bus power supplies.

DALI-2 is focused on interoperability of products from different vendors, and the DALI-2 certification program confirms compatibility of products with the relevant specifications.

Testing procedures for DALI-2 are much more detailed and comprehensive than for DALI version-1, and will be further improved if new issues are identified.

Benefits of DALI-2 for control devices:
    Application controllers and Input devices defined
    Single-masters and multi-masters allowed
    Event priorities defined
    Separate addressing & grouping from control gear
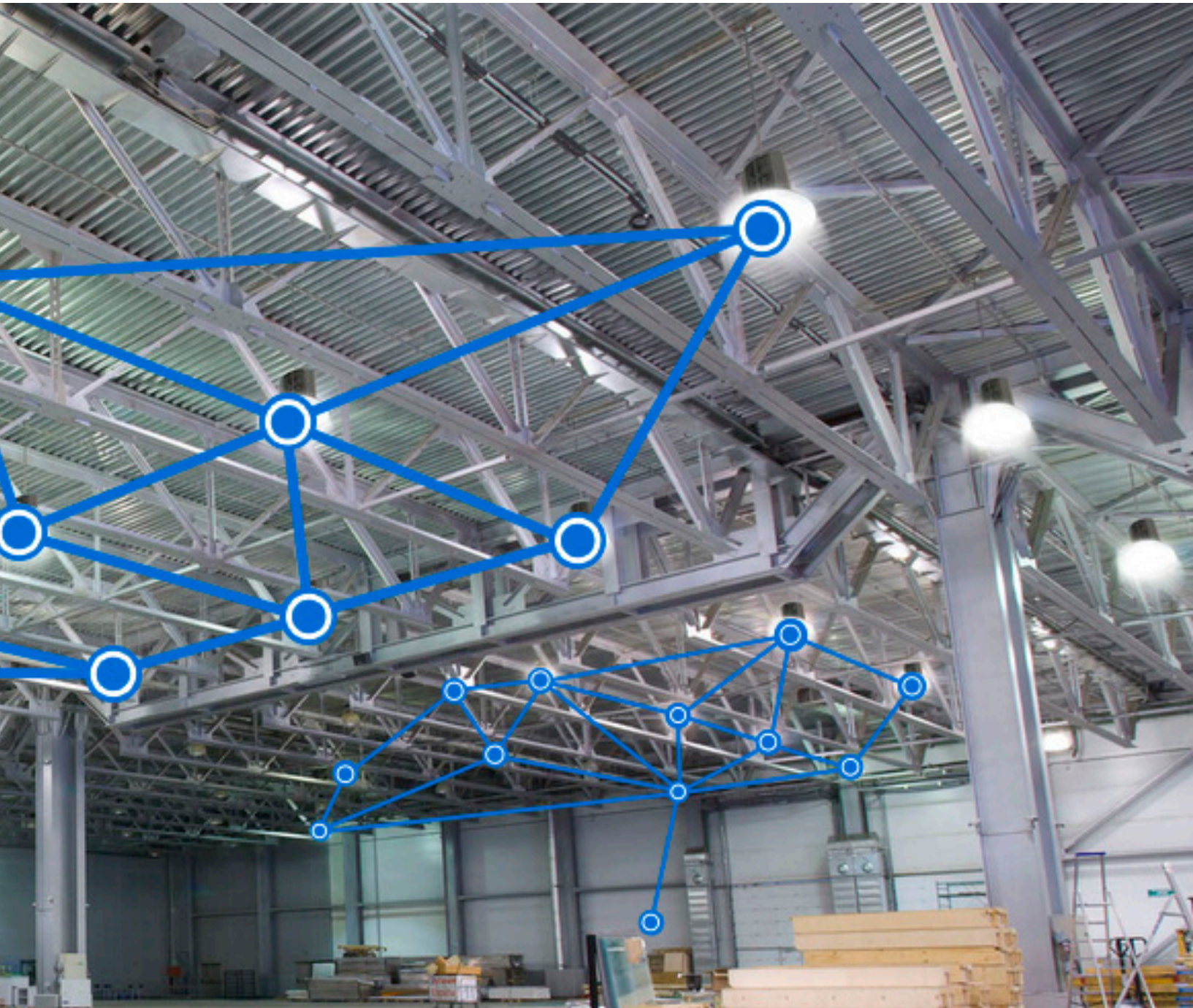
|	DALI-2	DALI
Does it include control devices (input devices, application controls)?	✓	✗
Are they the latest test sequences supplied by DiiA to members?	✓	✗
Have advanced test sequences been conducted designed to ensure product interoperability?	✓	✗
Have the test results been verified by DiiA?	✓	✗
Can compatible products be displayed on the DiiA website?	✓	✓

DA-PD100
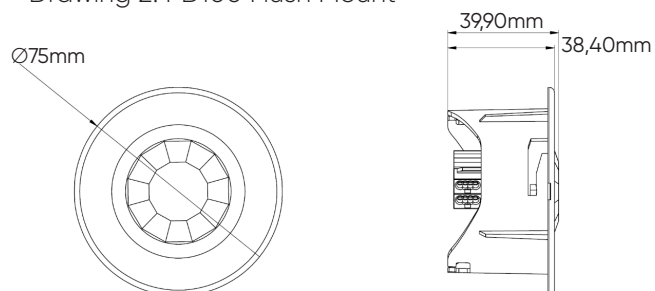
EAE DALI Presence Sensor

General Specifications

• PD100 DALI Occupancy Sensor is ideal for indoor areas such as offices of any size, classrooms, conference / meeting rooms, parking areas, warehouses and sport halls.

• Optional IR receiver for virtual push button control via remote controllers.

• Device can be configured on site to be used with most of the available remote controllers. Custom remote controller design with up to 12 buttons can be ordered on request

• PD100 (suitable for precise presence detection)

• Available in flush mounted and surface mounted versions

• Measures the ambient brightness between 5 – 2000 lux

• Power supply via DALI bus.

• Defined test and calibration commands for easy installation.

• RGB LED for localization, movement and IR command indications. Also can be used for custom defined feedbacks

• Compatible with relative DALI-2 standards

  • Control device (IEC 62386-103 v2.0)

  • Occupancy sensor (IEC 62386-303 v2.1)

  • Light sensor (IEC 62386-304 v2.0)

  • Feedback (IEC 62386-332)

  • Push button (IEC 62386-301 v2.0 – only on IR models)
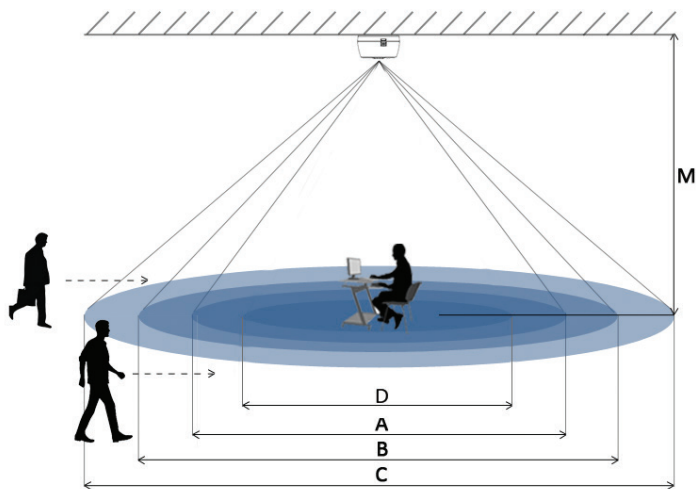
Dimensions

Drawing 1: PD100 Surface Mount
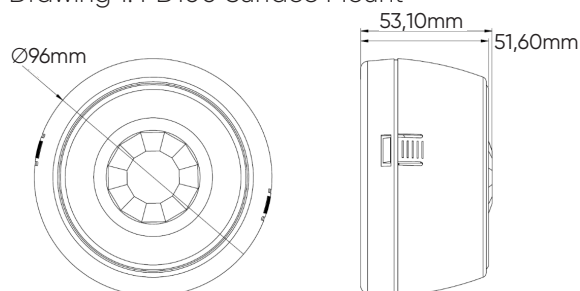
Drawing 2: PD100 Flush Mount

⌀96mm   53,10mm   51,60mm

⌀75mm   39,90mm   38,40mm

Technical Information

Type of protection	IP20		EN 60529
Safety class	II		EN 61140
Power supply :	Voltage		10V ... 22V DC
	Bus current drawn		<3 mA (guaranteed by design)
	Start-up time		<0.5 s
Application Area			Interior rooms
Sensor Type			Passive infrared
Installation	Location		Ceilling
	Recommended height		2,5m – 5m
Detection	Diameter (at height of 2,5m)		6m presence detection (PD100)
	Angle		360°
	Light level		5 – 2000 lux
IR Receiver	Protocol		RC5, NEC
	Frequency		36kHz
	Virtual push button instance count		12
Temperature range	Ambient		–5° C + 45° C
	Storage		–25° C + 55° C
Dimensions	Flush mount Surface mount		Dia: 75 mm Height: 38.4 mm Dia: 96 mm Height: 51.6 mm
Box	Plastic, polycarbonate, color white		
CE	In accordance with the EMC guideline and low voltage directives		

DA-PD100 Presence Sensor

DA-PD100	A	B	C	D
4,0 m	7,8 m	7 m	12 m	Ø2.3
3,5 m	7,3 m	6,5 m	10 m	Ø2.0
3,0 m	6 m	6 m	8 m	Ø1.6
2,5 m	5 m	5 m	6 m	Ø1.2

A: Area of detection according to a seated person
B: Area of detection upon direct approach on feet
C: Area of detection upon tangent approach on feet
D: Area of the brightness measuring in working desk height

Ordering Information

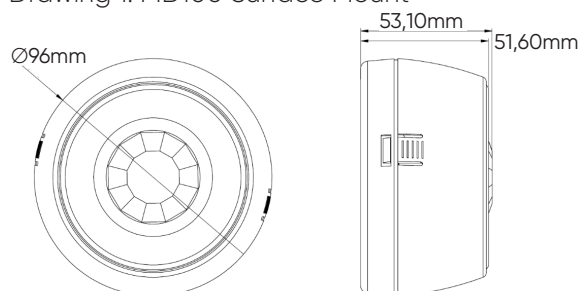| Product Name	Product Code	Ordering Code	Package Information
EAE DALI Presence Sensor (Surface mount)	SMP PD100 S-DALI NO IR	48215	1 pcs.
EAE DALI Presence Sensor (Flush mounted)	SMP PD100 F-DALI NO IR	48216	1 pcs.

DA-MD100
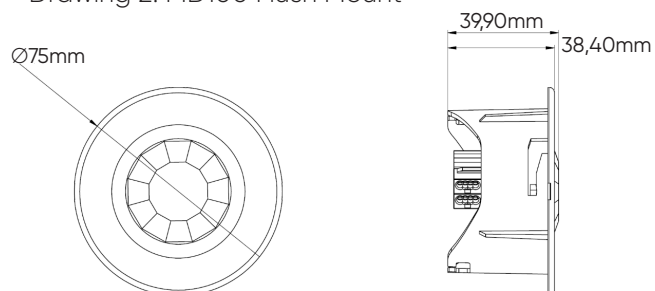## EAE DALI Movement Sensor

General Specifications

• MD100 DALI Occupancy Sensor is ideal for indoor areas such as offices of any size, classrooms, conference / meeting rooms, parking areas, warehouses and sport halls.

• Optional IR receiver for virtual push button control via remote controllers.

• Device can be configured on site to be used with most of the available remote controllers. Custom remote controller design with up to 12 buttons can be ordered on request

• MD100 (suitable for precise presence detection)

• Available in flush mounted and surface mounted versions

• Measures the ambient brightness between 5 – 2000 lux

• Power supply via DALI bus.

• Defined test and calibration commands for easy installation.

• RGB LED for localization, movement and IR command indications. Also can be used for custom defined feedbacks

• Compatible with relative DALI-2 standards

    • Control device (IEC 62386-103 v2.0)

    • Occupancy sensor (IEC 62386-303 v2.1)

    • Light sensor (IEC 62386-304 v2.0)

    • Feedback (IEC 62386-332)

    • Push button (IEC 62386-301 v2.0 – only on IR models)
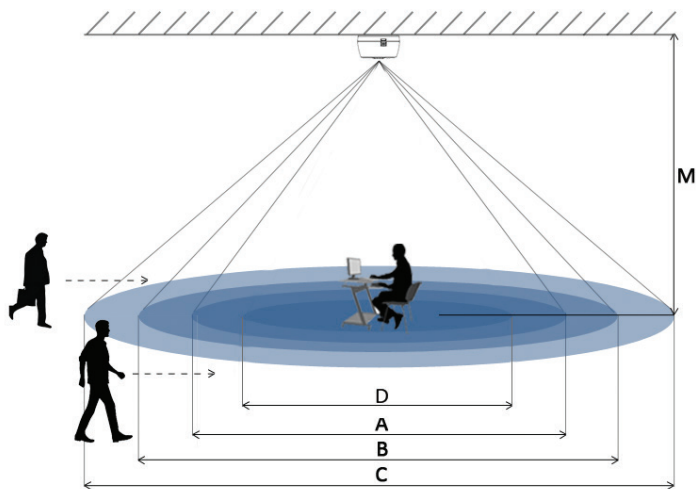
Dimensions

Drawing 1: MD100 Surface Mount   Drawing 2: MD100 Flush Mount

⌀96mm   53,10mm   51,60mm   ⌀75mm   39,90mm   38,40mm

Technical Information

Type of protection	IP20	EN 60529
Safety class	II	EN 61140
Power supply :	Voltage	10V … 22V DC
	Bus current drawn	<3 mA (guaranteed by design)
	Start-up time	<0.5 s
Application Area		Interior rooms
Sensor Type		Passive infrared
Installation	Location	Ceilling
	Recommended height	2,5m – 5m
Detection	Diameter (at height of 2,5m)	9m movement detection (MD100)
	Angle	360°
	Light level	5 – 2000 lux
IR Receiver	Protocol	RC5, NEC
	Frequency	36kHz
	Virtual push button instance count	12
Temperature range	Ambient	–5° C + 45° C
	Storage	–25° C + 55° C
Dimensions	Flush mount Surface mount	Dia: 75 mm Height: 38.4 mm Dia: 96 mm Height: 51.6 mm
Box	Plastic, polycarbonate, color white	
CE	In accordance with the EMC guideline and low voltage directives	

A: Area of detection according to a seated person
B: Area of detection upon direct approach on feet
C: Area of detection upon tangent approach on feet
D: Area of the brightness measuring in working desk height

DA-MD100 Movement Sensor

MD100	A	B	C	D
5,5 m	7,8 m	12 m	18 m	Ø3.3
5,0 m	7,3 m	9 m	15 m	Ø3.0
4,0 m	6 m	8 m	13 m	Ø2.3
3,5 m	5 m	7,5 m	12 m	Ø2.0
3,0 m	4,5 m	7 m	10,5 m	Ø1.6
2,5 m	4 m	6,5 m	9 m	Ø1.2
5,5 m	9 m	12 m	18 m	Ø3.3

Ordering Information

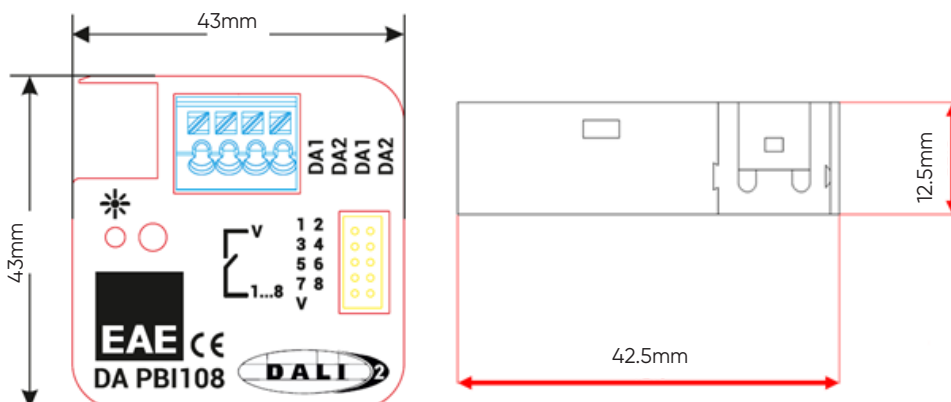| Product Name	Product Code	Ordering Code	Package Information
EAE DALI Movement Sensor (Surface mount)	SMP MD100 S-DALI	48235	1 pcs.
EAE DALI Movement Sensor (Flush mounted)	SMP MD100 F-DALI	48236	1 pcs.

PBI108/4/2
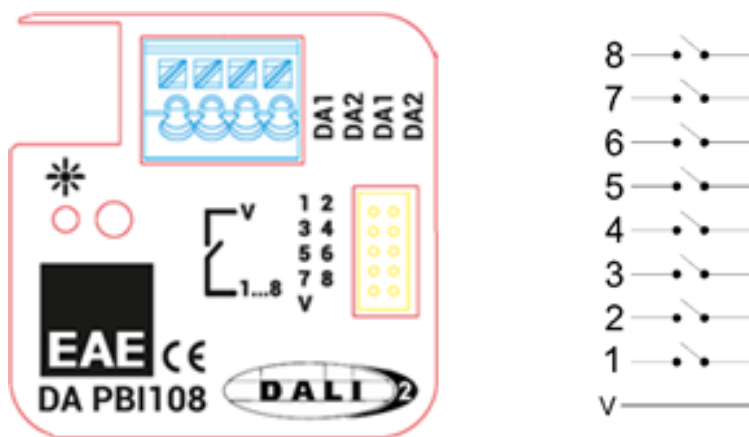## EAE DALI Push Button Interface

General Specifications

- 8 / 4 / 2 binary inputs as DALI-2 IEC 62386-301 Input devices - Push button instances
- Device power supplied only via DALI line
- Color-coded input cables
- Compatible with conventional push buttons in flush-mounted sockets
- The bus connection is enclosed DALI connection terminal
- Compatible with deep flush-mounted outlet boxes. (60 mm x 60 mm).
- Compatible with following DALI-2 standards
    - Control device (IEC 62386-103 v2.0)
    - Push button (IEC 62386-301 v2.0)

Dimensions

Technical Information

Protection type	IP 20		EN 60529
Safety class	II		EN 61140
Power supply	Voltage		11V... 22V DC
	Bus current drawn		< 3 mA (guaranteed by design)
	Start-up time		< 0.5 s
Inputs	Number		8 / 4 / 2
	Maximum Cable length		≤ 10 m
	Scanning voltage		3.3 V DC (Supplied by device)
	Contact type		Normally Open (Default) → NO/NC individually configurable through memory bank
	Debounce		30 ms (Default) → 5...255 ms globally configurable through memory bank
Connections	Input		2 x 5 core screw-type terminal
	DALI		Bus connection terminal
Temperature range	Ambient		–5 °C ... 45 °C
	Storage		–25 °C ... 55 °C
Dimensions	42,5 x 42,5 x 12mm		
Box	Plastic, polycarbonate, color grey		
CE	In accordance with the EMC guideline and low voltage directives.		

Pin Number	Description
V	Common terminal for inputs, 3.3 V DC supplied by device.
1 8	Volt-free contact inputs

Ordering Information

| Product Name	Product Code	Ordering Code	Package Information
DA-PBI108 Push Button Interface	DA-PBI108	48191	1 pcs.
DA-PBI104 Push Button Interface	DA-PBI104	48190	1 pcs.
DA-PBI102 Push Button Interface	DA-PBI102	48189	1 pcs.

DALI ORIA SWITCH
EAE DALI Oria Switch

General Specifications

- Available in Pearl white, Anthracite, Antique and Mustang Gray color options
- Available in 1 to 6 fold or single button options
- Device power supplied via DALI line
- Easy mount into 60 x 60 mm standard switch junctions
- Icon printing
- Feedback LEDs on each button
- DALI line connection is protected against accidental mains (110V/230V) connection
- Lifetime guarantee for surface quality
- Compatible with following DALI-2 standards
  - Control device (IEC 62386-103 v2.0)
  - Push button (IEC 62386-301 v2.0)
  - Feedback (IEC 62386-332)

Dimensions

| Single | 1 Fold | 2 Fold | 3 Fold | 4 Fold | 5 Fold | 6 Fold |
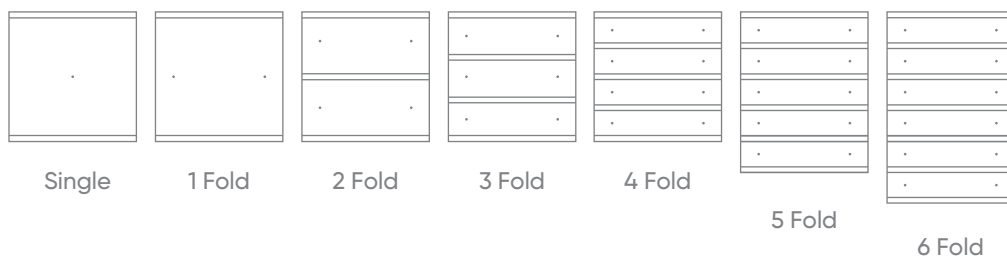
Dimensions (mm)	a	b	h
Single Switch	90	9	90
1 Fold Switch	90	9	90
2 Fold Switch	90	9	90
3 Fold Switch	90	9	90
4 Fold Switch	90	9	90
5 Fold Switch	90	9	111,5
6 Fold Switch	90	9	133

Technical Information

Protection type	IP 20	EN 60529
Safety class	II	EN 61140
Power supply	Voltage	9.5V... 22.5V DC
	Bus current drawn	< 3 mA (guaranteed by design)
	Start-up time	< 0.5 s
	Protection	Mains connection protected
Buttons	Number	1 / 2 / 4 / 6 / 8 / 10 / 12
Connections	DALI	Bus connection terminal
Temperature range	Ambient	–5 °C ... 45 °C
	Storage	–25 °C ... 55 °C
Humidity	Relative humidity (non-condensing)	95%
Dimensions	Front side	90 x 90 mm
	Side- Surface mounted part	8.5 mm
	Side- Flush mounted part	29.5 mm
Box	Plastic, polycarbonate	
CE	In accordance with the EMC guideline and low voltage directives.	

Ordering Information

Product Name	Product Code	Ordering Code	Package Information
DALI Oria Switch 6 fold	DA-SM6-F	48238	1 pcs.
DALI Oria Switch 5 fold	DA-SM5-F	48239	1 pcs.
DALI Oria Switch 4 fold	DA-SM4-F	48240	1 pcs.
DALI Oria Switch 3 fold	DA-SM3-F	48241	1 pcs.
DALI Oria Switch 2 fold	DA-SM2-F	48242	1 pcs.
DALI Oria Switch 1 fold	DA-SM1-F	48243	1 pcs.
DALI Oria Switch Single	DA-SM0-F	48244	1 pcs.

The information in this catalogue is subject to change without notice. Datasheet and user manuals should be consulted for the most accurate and up-to-date information.

EAE Technology assumes no responsibility for any errors that may appear in this document.

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