

**NEXGEN**  
Smart Building Solutions



# DALI-2

Product Catalogue





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## 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.

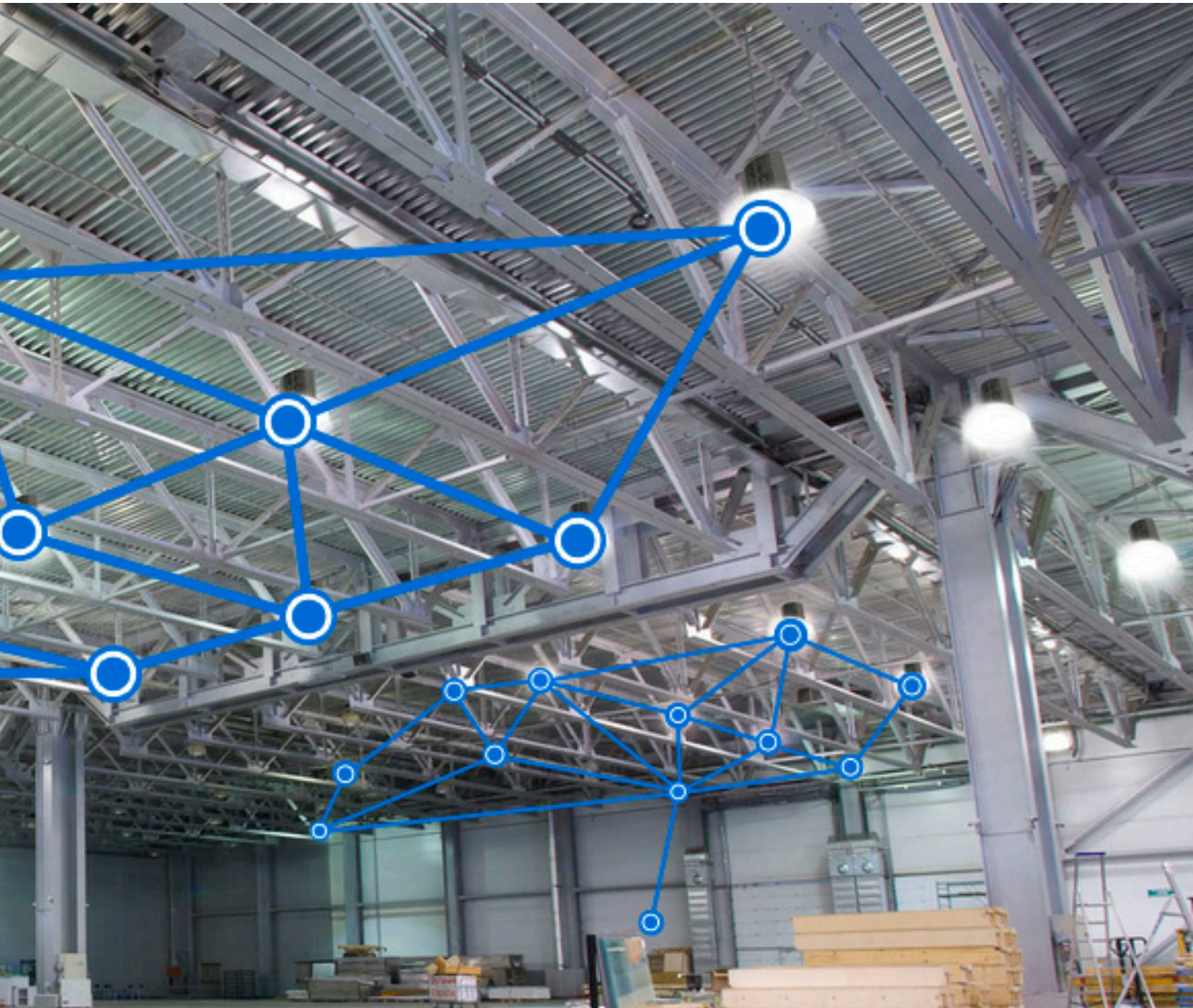
DALI-2 is focused on interoperability of products from different vendors, and the DALI-2 certification program confirms compatibility of products with the relevant specifications.

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

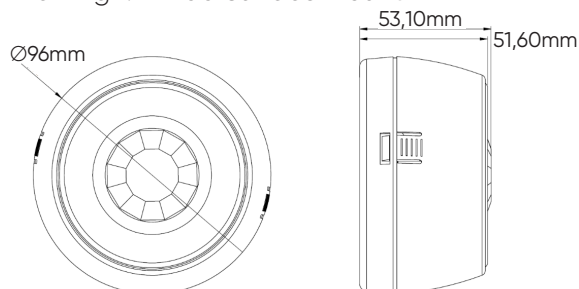


### General Specifications

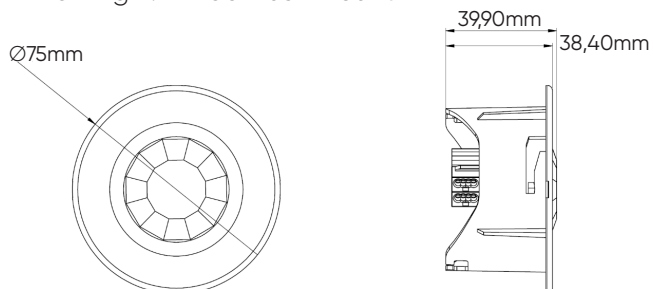
- PD100 DALI Occupancy Sensor is ideal for indoor areas such as offices of any size, classrooms, conference / meeting rooms, parking areas, warehouses and sport halls.
- Optional IR receiver for virtual push button control via remote controllers.
- Device can be configured on site to be used with most 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



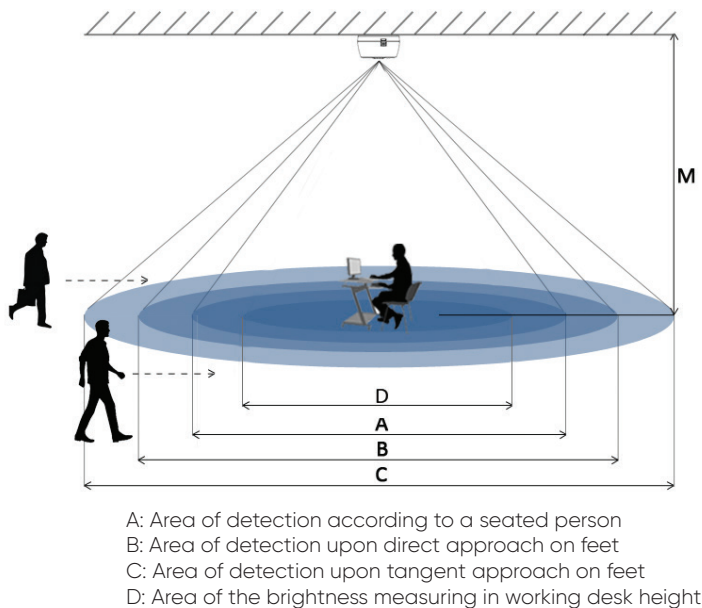
Drawing 2: PD100 Flush Mount





## 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	Ceiling
	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	Dia: 75 mm Height: 38.4 mm
	Surface mount	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

## 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

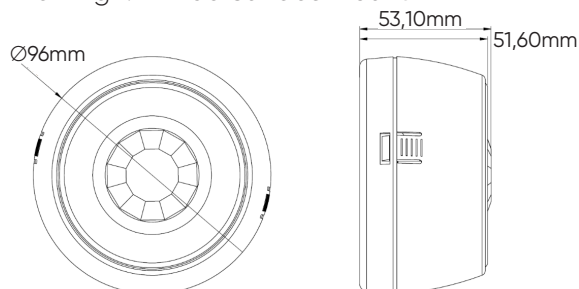


### General Specifications

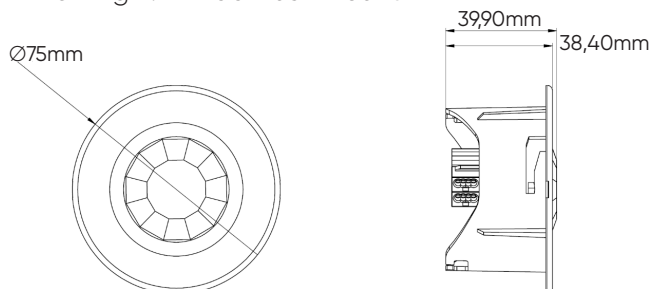
- MD100 DALI Occupancy Sensor is ideal for indoor areas such as offices of any size, classrooms, conference / meeting rooms, parking areas, warehouses and sport halls.
- Optional IR receiver for virtual push button control via remote controllers.
- Device can be configured on site to be used with most 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



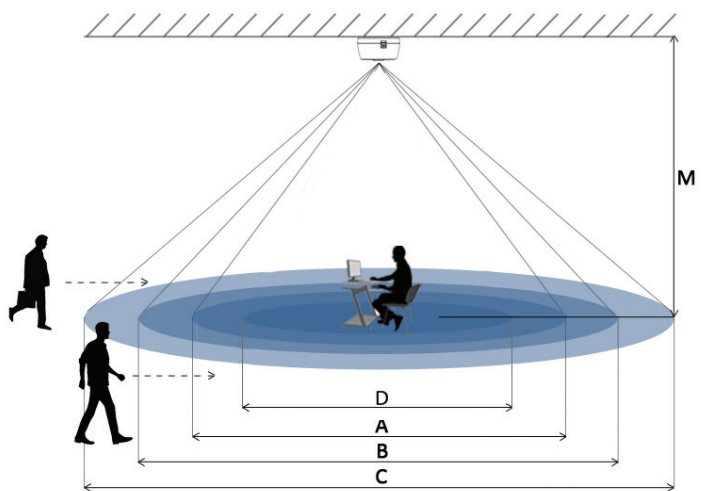
Drawing 2: MD100 Flush Mount





## 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	Ceiling
	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	Dia: 75 mm Height: 38.4 mm
	Surface mount	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

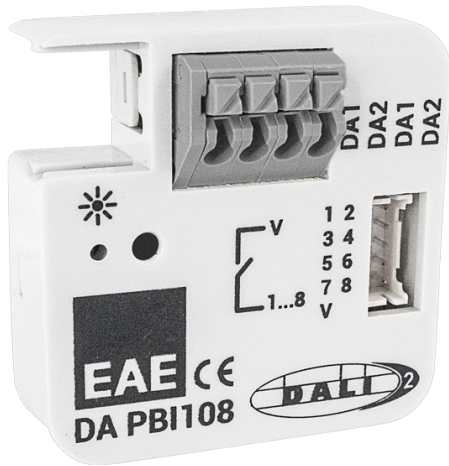
MD100	A	B	C	D
5,5 m	7,8 m	12 m	18 m	Ø3.3
5,0 m	7,3 m	9 m	15 m	Ø3.0
4,0 m	6 m	8 m	13 m	Ø2.3
3,5 m	5 m	7,5 m	12 m	Ø2.0
3,0 m	4,5 m	7 m	10,5 m	Ø1.6
2,5 m	4 m	6,5 m	9 m	Ø1.2
5,5 m	9 m	12 m	18 m	Ø3.3

## 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

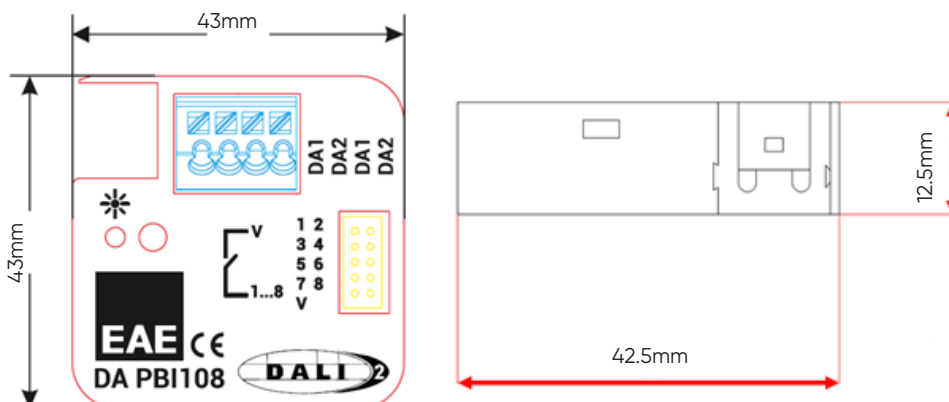
## EAE DALI Push Button Interface



### General Specifications

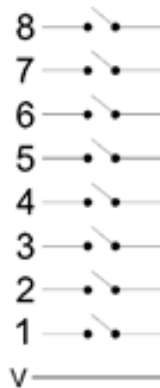
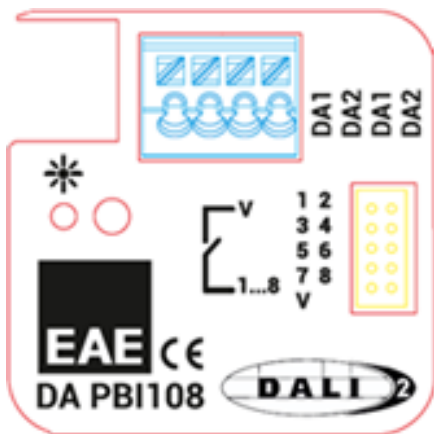
- 8 / 4 / 2 binary inputs as DALI-2 IEC 62386-301 Input devices - Push button instances
- Device power supplied only via DALI line
- Color-coded input cables
- Compatible with conventional push buttons in flush-mounted sockets
- The bus connection is enclosed DALI connection terminal
- Compatible with 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-PBI08 Push Button Interface	DA-PBI08	48191	1 pcs.
DA-PBI04 Push Button Interface	DA-PBI04	48190	1 pcs.
DA-PBI02 Push Button Interface	DA-PBI02	48189	1 pcs.



# DALI ORIA SWITCH

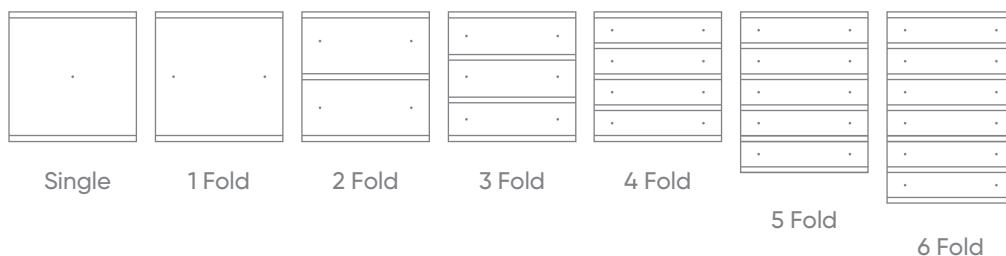
## EAE DALI Oria Switch



### 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



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

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

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