



**Datasheet** 

# Reliable SR technology for connected applications

The Xitanium SR Bridge can be used with existing luminaires to create a new SR system. The Bridge offers a quick and easy solution to control multiple luminaires with one or more SR sensors. The Bridge features all the elements of the SR interface like sensor power supply, energy metering (1% accuracy) and diagnostics. The SR sensor is connected to the Bridge via the SR interface while a group of luminaires can be controlled both via the Bridge DALI interface and the mains relay integrated in the Bridge.

#### **Benefits**

- One sensorfor multiple luminaires
- Can be used in applications where SR drivers are not yet available e.g. point/downlight luminaires
- Can be used to retrofit SR certified sensors to an existing DALI installation
- Advanced mains power switching enables higher amount of drivers per MCB
- Also suitable for use with fluorescent and HID control gear

#### Features

- Full SR interface: SR power supply, energymetering, diagnostics
- Built-in mains relay to avoid standby powerin case multiple driversare connected
- Independent and built-in versions for different applications

#### **Application**

- Downlights
- Trunking
- Tracks

# Logistical data

| Specification item | value                       |
|--------------------|-----------------------------|
| Product name       | Xitanium SR Bridge Built-in |
| EAN1               | 8718 696 719824             |
| Logistic code 12NC | 9290 015 46406              |
| EOC                | 8718 696 71982400           |
| Pieces per box     | 32                          |

# Logistical data

| Specification item | value                          |
|--------------------|--------------------------------|
| Product name       | Xitanium SR Bridge Independent |
| EAN1               | 8718 696 719848                |
| Logistic code 12NC | 9290 015 46506                 |
| EOC                | 8718 696 71984800              |
| Pieces per box     | 36                             |

# Electrical input data

| Specification item                     | Value   | Unit    | Condition                          |
|--|---------|---------|------------------------------------|
| Specification item                     |         | Offic   | Condition                          |
| Rated input voltage                    | 230     | Vac     |                                    |
| Input voltage range                    | 202 254 | Vac     | Performance range                  |
| Input voltage range                    | 198 264 | Vac     | Operational safety                 |
| Rated input frequency                  | 50/60   |         |                                    |
| Input frequency range                  | 47 63   | Hz      | Performance range                  |
| Input frequency range                  | 45 66   | Hz      | Operational safety                 |
| Maximum relay power switching capacity | 400     | W       |                                    |
| Maximum DALI interface loading         | 20      | drivers | Max. 40mA, based on 2mA per driver |
| Power factor                           | ≤ 0.9   |         | 22W - 400W load                    |
| Total harmonic distortion              | ≤ 20    | %       | 22W - 400W load                    |
| Standby power                          | < 0.5   | W       | No load on SR or DALI, relay off   |

# Wiring & Connections

| Specification item                               | value   | Unit | Condition                                   |
|--|---------|------|---|
| Wire cross section                               | 0.2 1.5 | mm²  | crimped and solid wire                      |
| Wire strip length                                | 9 10    | mm   |   |
| Max. cable length between SR Bridge and sensor * | 15      | m    | Wire cross section min. 0.75mm <sup>2</sup> |

 $<sup>\</sup>ensuremath{^*}\xspace$  ) Limitation of cable length by sensor specification can be different.

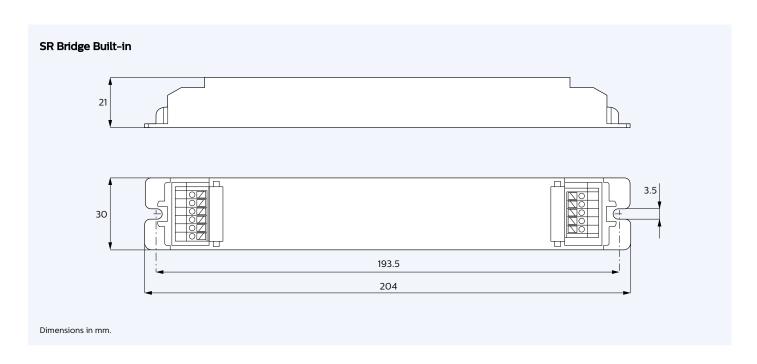


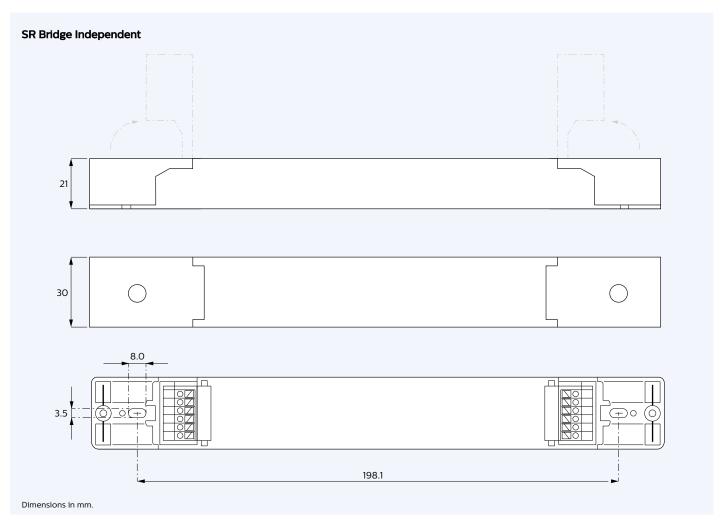
#### Insulation

|                   | Mains         | FE     | SR            | DALI   | Switched Mains Ls |
|-------------------|---------------|--------|---------------|--------|-------------------|
| Mains             | N/A           | Double | Double (SELV) | Basic  | None              |
| FE                | Double        | N/A    | Double        | Double | Double            |
| SR                | Double (SELV) | Double | N/A           | Basic  | Double (SELV)     |
| DALI              | Basic         | Double | Basic         | N/A    | Basic             |
| Switched Mains Ls | None          | Double | Double (SELV) | Basic  | N/A               |
| DALI              | Basic         | Basic  | Basic         | Basic  | NA                |

# Dimensions and weight

| Specification item   | Value | Unit |
|----------------------|-------|------|
| Weight (built in)    | 95    | gram |
| Weight (Independent) | 110   | gram |





# Operational temperatures and humidity

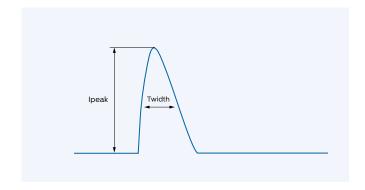
| Specification item        | v  | /alue  | Unit | Condition                 |
|---------------------------|----|--------|------|---------------------------|
| Ambient temperature range | -  | -40+60 | °C   |                           |
| t <sub>case</sub> -max    | +  | +75    | °C   |                           |
| t <sub>case</sub> -life   | +  | +65    | °C   | For rated driver lifetime |
| Relative humidity         | 10 | 0 90   | %    | Non-condensing            |
| Ingress Protection (IP)   | 2  | 20     |      | Built-in version          |

## Storage temperature and humidity

| Specification item  | Value   | Unit | Condition      |
|---------------------|---------|------|----------------|
| Ambient temperature | -40 +85 | °C   |                |
| Relative humidity   | 5 95    | %    | Non-condensing |

### Lifetime

| Specification item                | Value   | Unit  | Condition                             | 1   |
|-----------------------------------|---------|-------|---------------------------------------|---|
| Rated driver lifetime             | 100,000 | hours | t <sub>case</sub> ≤ t <sub>case</sub> | life. Maximum failures = 10%  |
| Inrush current                    |         |       |                                       |   |
|                                   |         |       |                                       |   |
| Specification item                | Value   |       | Unit                                  | Condition   |
| Inrush current I <sub>peak</sub>  | 12      |       | Α                                     | Input voltage 230Vac  |
| Inrush current T <sub>width</sub> | 200     |       | μs                                    | Input voltage 230Vac, measured at 50% I <sub>peak</sub>                                   |
| SR Bridges / MCB 16A type B       | max. 50 |       | pcs                                   | Based on inrush current of the SR Bridge itself, excl. inrush current of a switched load. |



| MCB | Rating | Relative number of LED drivers |
|-----|--------|--------------------------------|
| В   | 4A     | 25%                            |
| В   | 6A     | 40%                            |
| В   | 10A    | 63%                            |
| В   | 13A    | 81%                            |
| В   | 16A    | 100%                           |
| В   | 20A    | 125%                           |
| В   | 25A    | 156%                           |
| В   | 32A    | 200%                           |
| В   | 40A    | 250%                           |
| С   | 4A     | 42%                            |
| С   | 6A     | 63%                            |
| С   | 10A    | 104%                           |
| С   | 13A    | 135%                           |
| С   | 16A    | 170%                           |
| С   | 20A    | 208%                           |
| С   | 25A    | 260%                           |
| С   | 32A    | 340%                           |
| С   | 40A    | 415%                           |

## **Surge immunity**

| Specification item                  | Value | Unit | Condition              |
|-------------------------------------|-------|------|------------------------|
| Mains surge immunity (comm. mode)   | 2     | kV   |                        |
| Mains surge immunity (comm. mode)   | 4     | kV   |                        |
| Control surge immunity (diff. mode) | 600   | V    | SR - SR                |
| Control surge immunity (comm. mode) | 4     | kV   | SR - FE and SR - mains |

## **Energy Metering**

| Specification item             | Value | Unit | Condition |
|--------------------------------|-------|------|-----------|
| Energy Metering accuracy (typ) | 4/0.5 | %/W  |           |



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