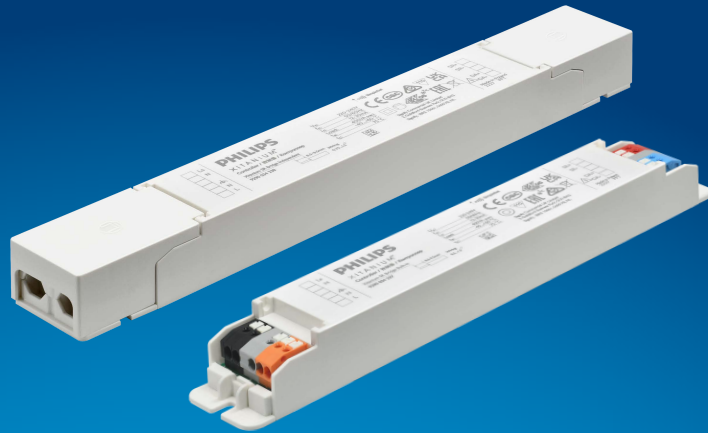


PHILIPS

Xitanium

SR Bridge



Datasheet

Reliable SR technology for connected applications

The Xitanium SR Bridge is used to control multiple luminaires with one SR sensor or to make existing luminaires sensor ready. 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 sensor for 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, energy metering, diagnostics
- Built-in mains relay to avoid standby power in case multiple drivers are 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	8719 514 474949
Logistic code 12NC	9290 034 23706
EOC	8719 5144 7494900
Pieces per box	32

Logistical data

Specification item	value
Product name	Xitanium SR Bridge Independent
EAN1	8719 514 474963
Logistic code 12NC	9290 034 23806
EOC	8719 514 47496300
Pieces per box	36

Electrical data

Specification item	Value	Unit	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
DALI Master interface	Value	Unit	Condition
Guaranteed supply current	40	mA	
Maximum supply current	60	mA	
Maximum sink current	250	mA	
DALI SR interface	Value	Unit	Condition
Guaranteed supply current	52	mA	
Maximum supply current	60	mA	
Maximum sink current	250	mA	

Features

Specification item	Value	Condition
Energy metering (DALI part 252)	Yes	Accuracy 10%
Diagnostics	Yes	

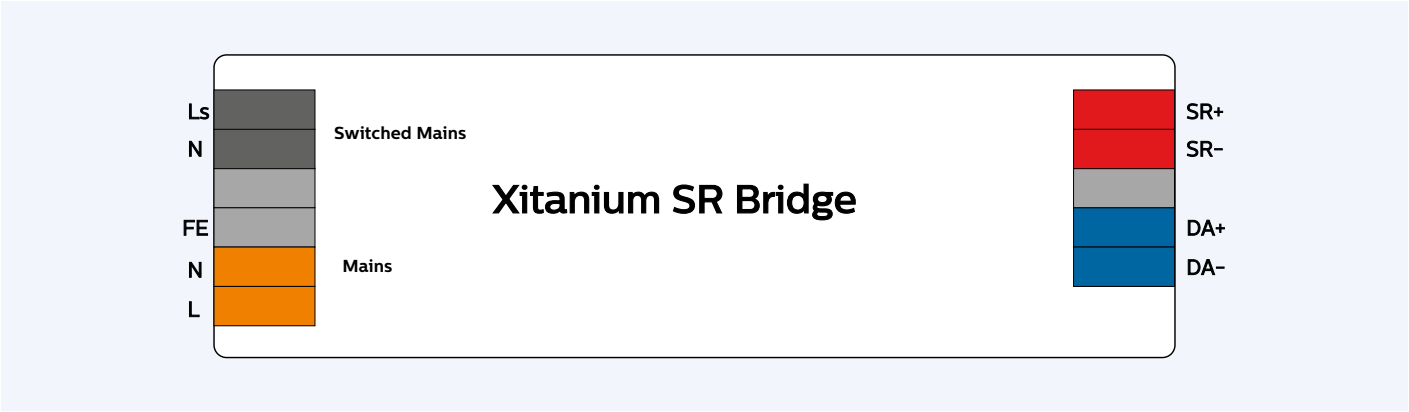
Programmable features

Specification item	Default setting
Load Fault Indicator Thresholds(LFIT) Enabled	No
Lamp failure power level	15W
OWP Enabled	No
RSO	Switches with SR input commands
SR PSU Enabled	Yes
Min dim level enabled	Yes
Min dim level	1%

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. 0.75mm²

*) Limitation of cable length by sensor specification can be different.



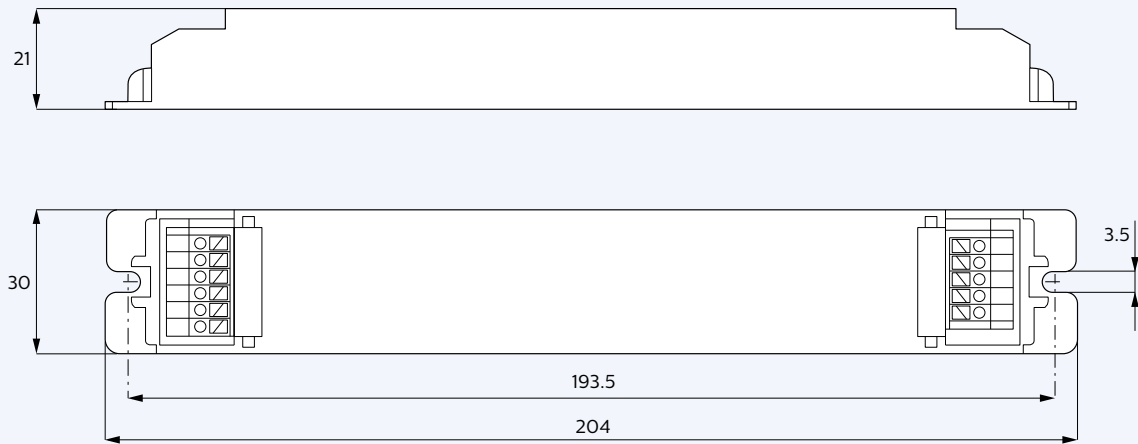
Insulation

	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

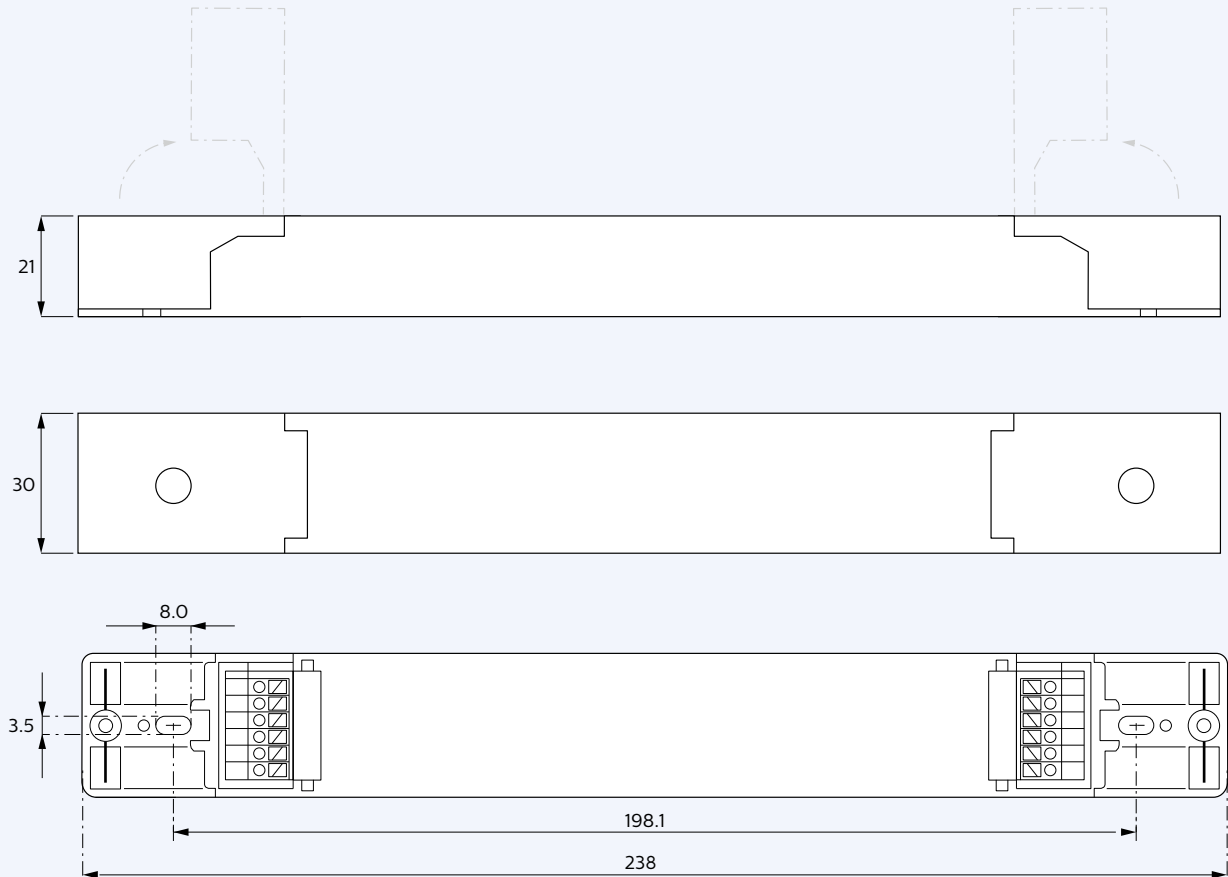
Specification item	Value	Unit
Weight (built in)	95	gram
Weight (Independent)	110	gram

SR Bridge Built-in



Dimensions in mm.

SR Bridge Independent



Dimensions in mm.

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature range	-40...+60	°C	
t _{case} -max	+75	°C	
t _{case} -life	+65	°C	For rated driver lifetime
Relative humidity	10 ... 90	%	Non-condensing
Ingress Protection (IP)	20		Built-in version

Storage temperature and humidity

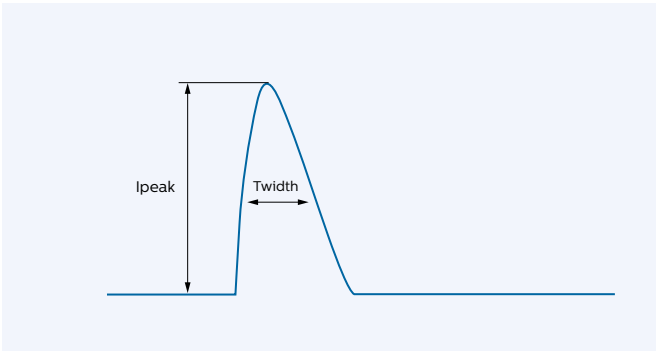
Specification item	Value	Unit	Condition
Ambient temperature	-40 ... +85	°C	
Relative humidity	5 ... 95	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Rated driver lifetime	100,000	hours	t _{case} ≤ t _{case} life. Maximum failures = 10%

Inrush current

Specification item	Value	Unit	Condition
Inrush current I _{peak}	12	A	Input voltage 230Vac
Inrush current T _{width}	200	µs	Input voltage 230Vac, measured at 50% I _{peak}
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
B	4A	25%
B	6A	40%
B	10A	63%
B	13A	81%
B	16A	100%
B	20A	125%
B	25A	156%
B	32A	200%
B	40A	250%
C	4A	42%
C	6A	63%
C	10A	104%
C	13A	135%
C	16A	170%
C	20A	208%
C	25A	260%
C	32A	340%
C	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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