

1639790

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Zhaga Book 18-compatible control device for street lighting via LoRaWAN®, power supply and DALI-2 communication via Zhaga-compatible base, control of DALI-2-compatible electronic ballasts

Your advantages

- Improved energy efficiency with bidirectional LoRaWAN® communication
- Keep an eye on lighting points at all times with remote parameterization and diagnostics
- Automatic fallback strategy in case of communication failure
- TLS 128 encrypted data transmission

Commercial data

Item number	1639790
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DREDIA
GTIN	4067923165632
Weight per piece (including packing)	91 g
Weight per piece (excluding packing)	71 g
Country of origin	CH

Technical data

Notes

Note on application

Note on application	Only for industrial use
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Product properties

Product type	Wireless module
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Insulation characteristics

Protection class	II (plastic housing)
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Electrical properties

Transient surge protection	no
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System limits

Designation	Wireless module
Number of supported devices	= 1 (via DALI communication with internal power supply)
	≤ 64 (via DALI communication with external power supply)

Supply

Supply voltage	typ. 24 V DC ±2 V (≥ 1 W)
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Connection data

Connection method	Zhaga Book 18 socket
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Interfaces

Functions

Basic functions	Controller for LED driver
Automatic channel selection	ADR
Wireless licenses	Europe
Country support	Egypt
	Albania
	Andorra
	Armenia
	Austria
	Bahrain
	Bangladesch
	Belarus
	Belgium
	Burma (Myanmar)
	Bosnia/Herzegovina
	Brunei Darussalam
	Bulgaria

LPWAN LCU D4I ZHAGA EU - Wireless module



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	Cambodia
	Croatia
	Cyprus
	Czech Republic
	Denmark
	Estonia
	Finland
	France
	Germany
	Greece
	Iceland
	Hungary
	Iran
	Italy
	Laos
	Latvia
	Lebanon
	Liechtenstein
	Lithuania
	Luxembourg
	Macedonia
	Malta
	Moldavia
	Montenegro
	Morocco
	Netherlands
	New Zealand
	Nigeria
	Norway
	Oman
	Pakistan
	Philippines
	Poland
	Qatar
	Romania
	Saudi Arabia
	Serbia
	Singapore
	Slovakia
	Slovenia
	South Africa
	Spain
	Sweden
	Switzerland

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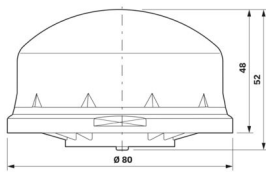
<https://www.phoenixcontact.com/in/products/1639790>

	Tunisia
	Turkey
	Ukraine
	United Arab Emirates
	Great Britain
	Ireland
	Portugal
	Vietnam

Wireless

Designation	LoRaWAN® EU 868
Number	1
Frequency range	867.1 MHz ... 869.525 MHz
Frequency band	868 MHz
Wireless standard	LoRaWAN®
Transmission power	< 14 dBm
Range	up to 15 km
Receiver sensitivity	- 139.50 dBm
Transmission physics	LoRa®
Number of wireless interfaces	1

Dimensions

Dimensional drawing	
Height	52 mm
Diameter	80 mm

Material specifications

Color	transparent
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	0 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	0 % ... 95 %

Approvals

CE

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Identification	CE-compliant
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EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	Immunity test in accordance with EN 301489-1 Electrostatic discharge (ESD) Criterion A, ±4 kV contact discharge, ±8 kV air discharge
	Electromagnetic fields Criterion A, Field intensity: 10 V/m
	Fast transients (burst) Criterion A, ±2 kV
	Transient overvoltage (surge) Criterion A, ±1 kV (symmetrical)
	Conducted disturbance Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN IEC 55015

Mounting

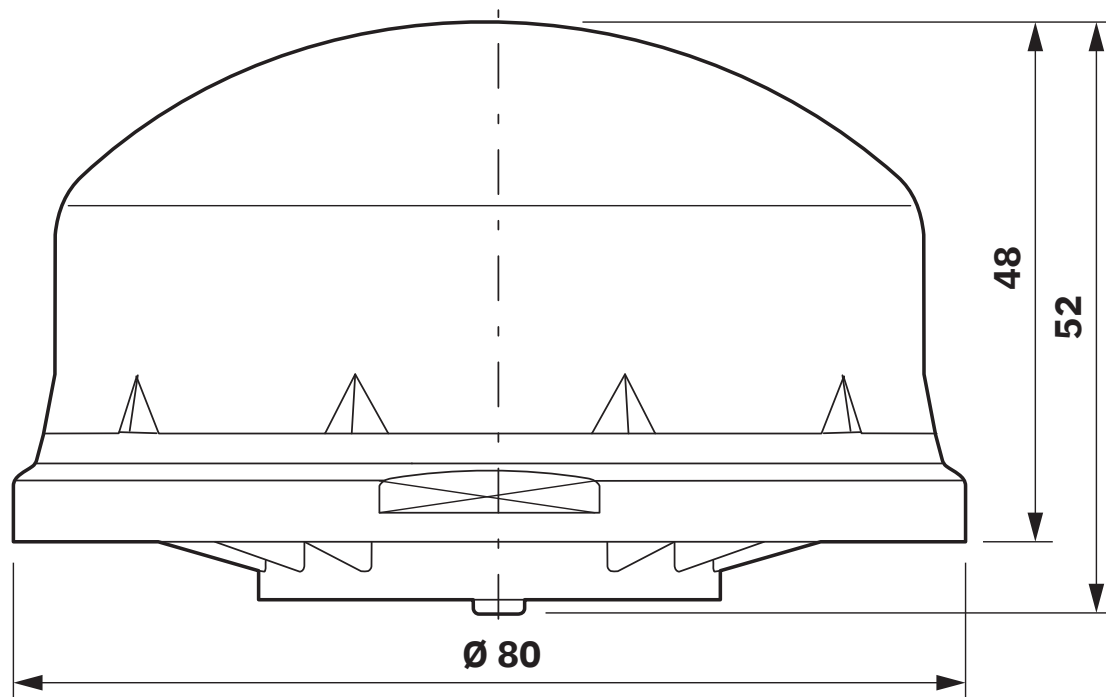
Mounting type	Zhaga Book 18 connector
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Drawings

Dimensional drawing



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Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 9.0	EC001604
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in