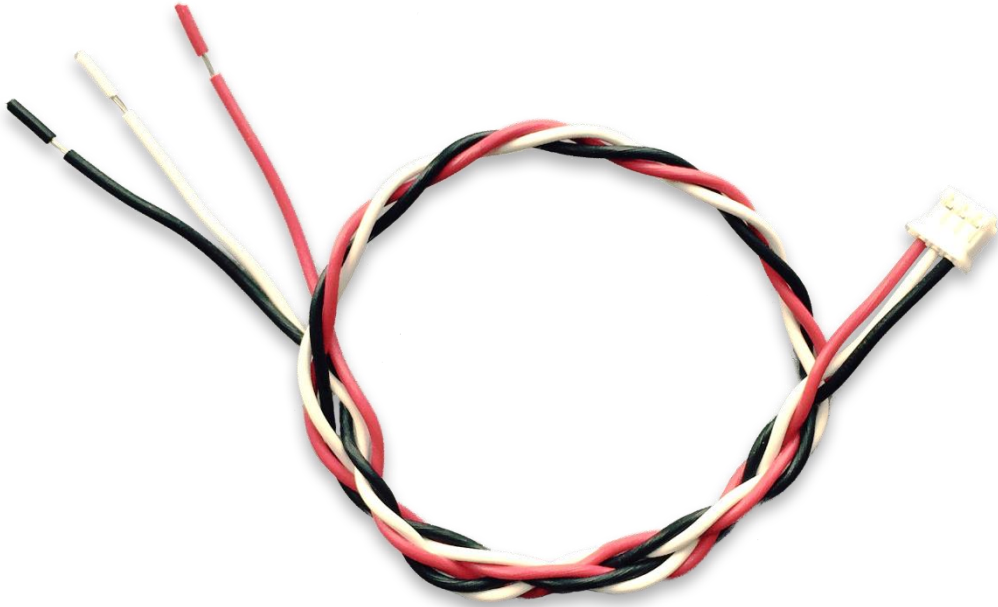




Accessories



Connectors and wires

Wires and connectors for OptoDrive modules



Connectors and wires

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n/a

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modules**

Author:
SL

Date:
2015-05-11

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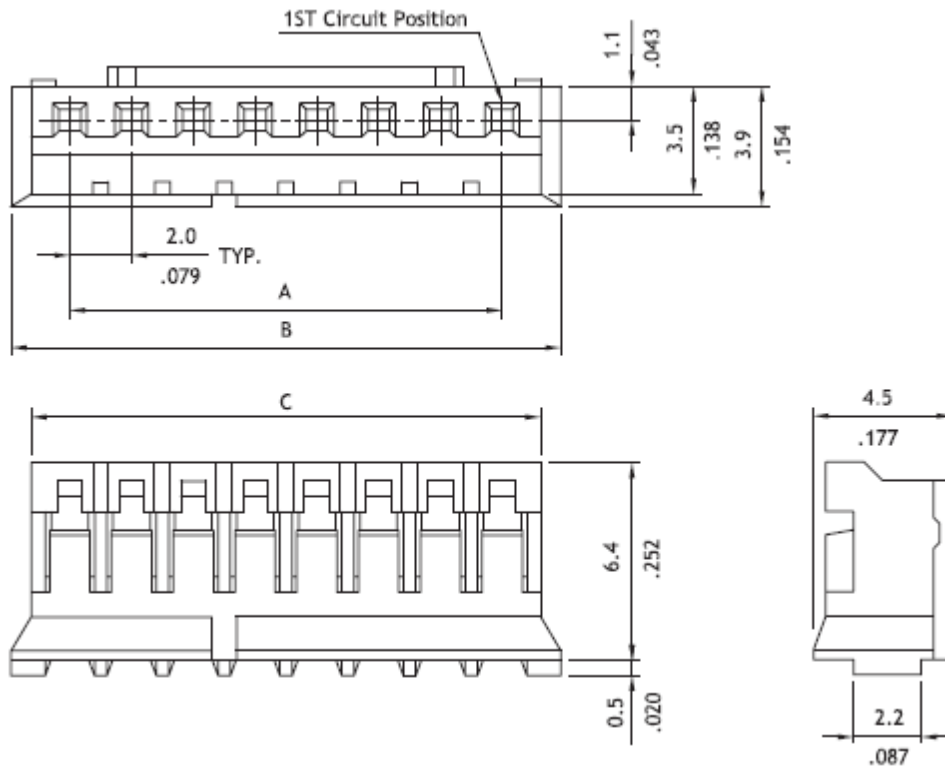
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Connectors to Optodrive Modules

The Optodrive LED- modules work with 3 different connectors suited for different power loads. The low voltage versions called ID, ED and LD use standard connectors from JST and CviLux. The AC versions require a different connector to achieve greater creepage distance between the connector pins. At some specific modules Push In connectors are used for easy mounting.

ID, ED and LD modules

The harness or cables requires connector JST PHR-3, or CviLux CI01-03S0000 or equivalent connectors. The numbers of circuits can vary.

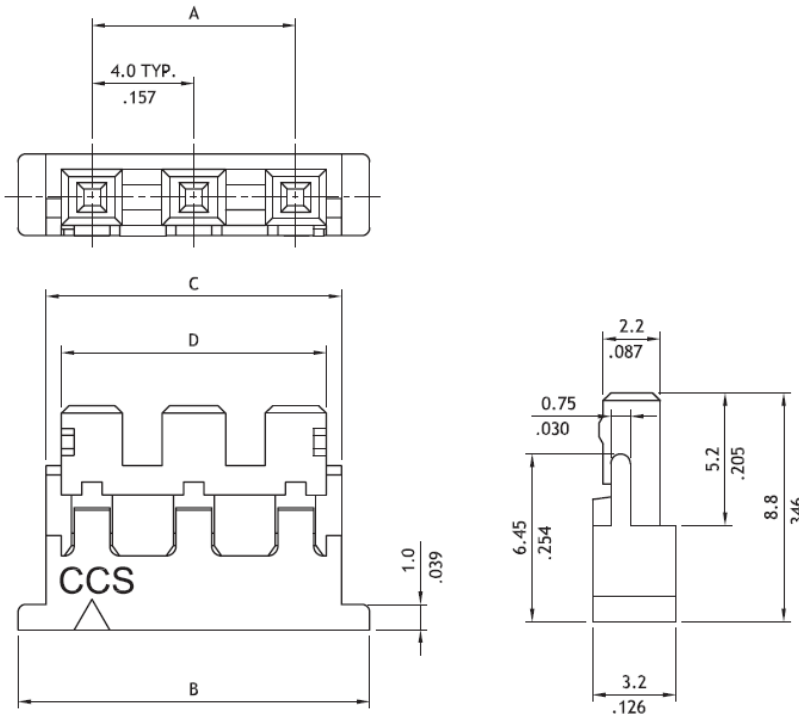


Circuits	A	B	C
2	2 mm	5.8 mm	4.5 mm
3	4 mm	7.8 mm	6.5 mm
4	6 mm	9.8 mm	8.5 mm
5	8 mm	11.8 mm	10.5 mm
Tolerances	+/-0.1	+ 0 / -0.4	+ 0 / -0.3

The thickness of connector for Optodrive ID, ED and LC is 3.5 mm +0/-0.3

AC modules

The harness or cables requires connectors JST BHR-02(8.0)VS-1N or CviLux CP0403S0000 or equivalent connector.



	A	B	C	D
dimensions	8.0 mm	13.8 mm	11.6 mm	10.4 mm
tolerances	+/- 0.1	+/- 0.3	+0.1 / -0.3	+0.1 / -0.3

The thickness of connector for Optodrive AC is 2.2 mm +0.1/-0.2

AC wires		
102877	Wire AC 230V	L=100mm
103527	Wire AC 230V	L=220mm
101913	Wire AC 230V	L=450mm (standard length)
103222	Wire AC 230V	L=600mm



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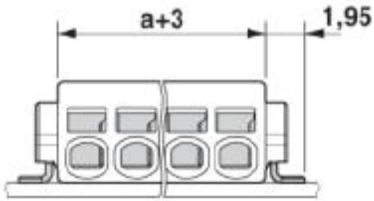
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Push In connector



Direct connection with wires/conductors to ease mounting of cables.

Wire Connection data

Wire type (Conductor)	Min	Max
Solid	0.14 mm ²	0.5 mm ²
Stranded	0.2 mm ²	0.5 mm ²
Stranded, with ferrule without plastic sleeve	0.25 mm ²	0.5 mm ²
AWG	24	20



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Precaution for use

We ask you to take this information as a guideline for your own evaluation. Secure your health for hazard risk when working with AC. Follow the guidelines in the technical documentation for the specific LED module and from the evaluated connector manufacturer's guidelines.



ROHS Compliant

All our LED modules meet the Restrictions of Hazardous Substances (RoHS)!

There has been a growing consensus that Lead Free Systems should increase for the safety of our environment. It is a very serious problem that lead and other harmful materials are being used in commercial and industrial products, causing more and more environmental problems. This has led to regulations such as RoHS (Restriction of the use of certain Hazardous Substances) from the EU and the Japan Ministry of Trade and Industry (MITI). All LED module makers providing products to these countries should comply with these restrictions. In order to meet the RoHS regulation, Optoga is strictly implementing a ban on lead and other hazardous materials in its products. This is in compliance with our responsibilities as good corporate citizens.

Design for Environment:

According to the EU-directive 2002/95/EC (RoHS) the following substances must not be used in this product

- Lead (Pb) alloys
- Mercury (Hg)
- Cadmium (Cd)
- Chromium (6+) compounds

Do you want to know more about the benefits of OptoDrive™ LED?

Read more about OptoDrive™ at www.optodrive.se. You can also register your interest here (go to www.optodrive.se/order.pab). Obviously, you can also call us on +46 (0)589 490 950.

Optoga AB

Founded in November 2004, Optoga has over 30 years of experience in electronic components. The company develops and supplies LEDs, LED drivers, LED modules and software solutions for the lighting industry, vehicle manufacturers and electronics companies.

By developing products with integrated LED and driver electronics, Optoga has taken the initiative to replace strip lights, incandescent and halogen bulbs with LED-based light sources.

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