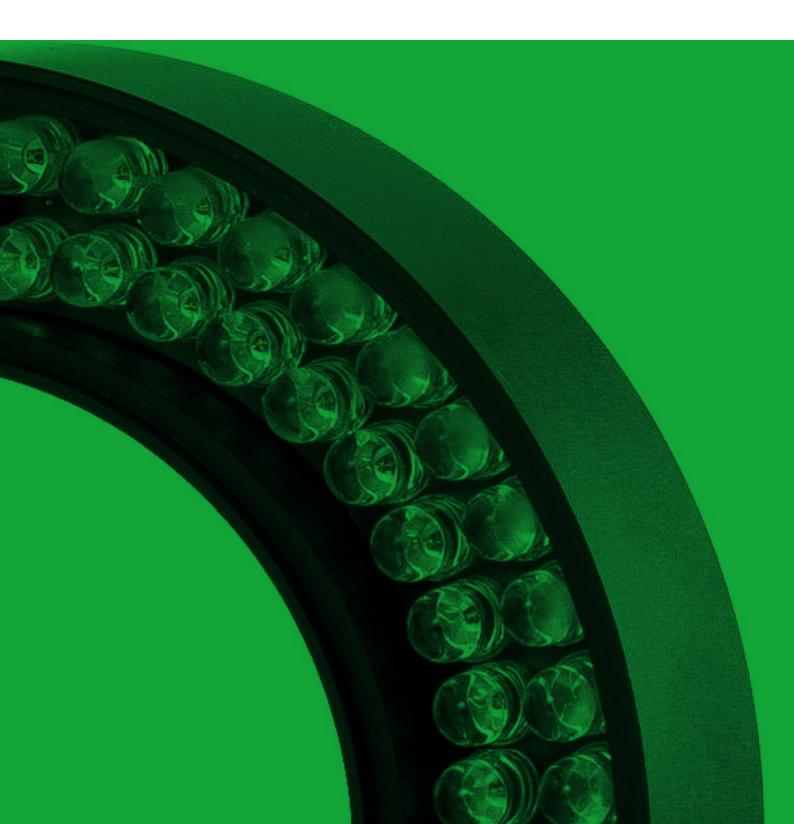


IDLH catalogue







an Union and bear the CE certificate.



ISCON products feature high light intensity, a wide array of available models and sizes as well as excellent build quality. Thanks to many years of experience in the machine vision industry, ISCON provides consultancy in terms of selecting the best illuminator model. ISCON also ensures user safety by adhering to stringent standards concerning electrical device safety In order to guarantee high light intensity and long operation time, ISCON illuminators exclusively use the highest quality LEDs. A durable aluminium casing ensures increased resistance to mechanical damage and fire protection. Beside the highest quality and safety, ISCON also ensures express order processing. To maintain high quality of our illuminators, each product is subjected to many hours of stress tests before being delivered to the customer. ISCON products are fully manufactured within the Europe-

ISCON illuminators are designed to operate in industrial machine vision systems. Using the correct illuminator in a machine vision system allows any physical property of an object to be inspected, including size, shape or inscription. Thanks to high light intensity, ISCON illuminators perform excellently in vision systems with a short illumination time of the inspected object. A wide array of models, light colour and additional accessories ensures versatility of ISCON illuminators, which allows them to perform perfectly in all types of vision systems. At the client's request, it is possible to design and manufacture custom illuminators, tailored to specific requirements of a machine vision system.

Selecting the correct ISCON illuminator for a vision system ensures:

maximising the contrast between the inspected object and the background
stable operating conditions of the machine vision system
minimising the impact of the surrounding ambient light.
Scope of services:
consultancy in terms of selecting the correct illuminator model
— custom builds at the customer's request
free equipment rental for testing in actual conditions
→ technical documentation for products
→ warranty service and technical support.



- Uniform diffusion of reflected light
- Durable, metal casing
- Suitable for inspecting uneven and glossy surfaces



Product specifications

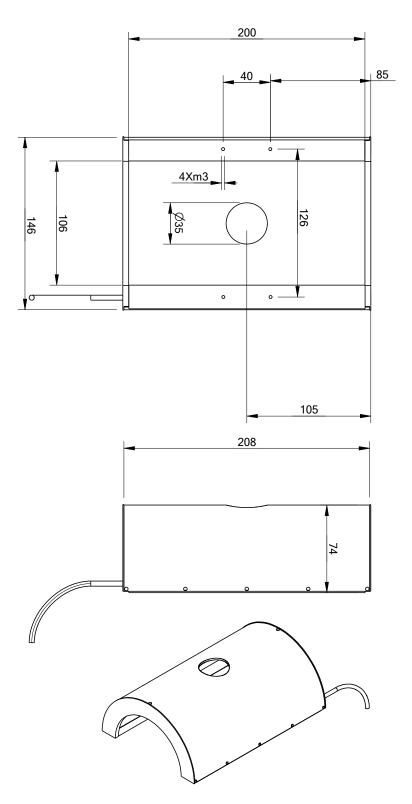
Supply voltage	24VDC
Operating temperature	0-60 °C
Protection rating	IP40
Cable	PUR cable up to 2m or 0.5m, M8, 3-pin
Cooling	Convection
Certificates	ROHS (II)
Casing	Anodised aluminium
Casing colour	White

LED wavelength

W (white)	R (red)	G (green)	B (blue)
CRI=75	620-650nm	520-540nm	460-480nm



Overview drawing IDLH-150-75-24x



Power supply required to power the device - 28 W.

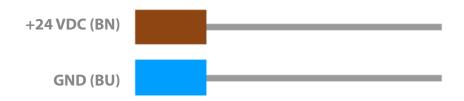
Tolerance of ± 0.5 mm applies to all of the dimensions given.



Connection Diagrams

An illuminator without a strobe module, e.g. IDLH-150-75-24R

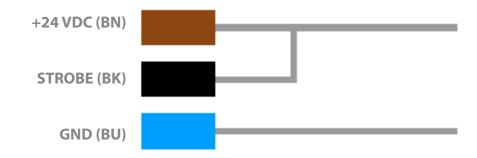
- Continuous operation



- The illuminator can also operate in strobe mode, for example by using a relay or another external device to trigger the illuminator.

An illuminator with a strobe module, e.g. IDLH-150-75-24RS

- Continuous operation



- Strobe mode operation





Connector Type

No connector (loose wires). Cable length up to 2m. For an illuminator without a strobe module.

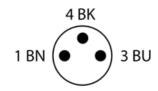
For an illuminator without a strobe module, e.g. IDLH-150-75-24R	
Brown	+24VDC
Blue	GND

No connector (loose wires). Cable length up to 2m. For an illuminator with a strobe module.

For an illuminator with a strobe module, e.g. IDLH-150-75-24RS	
Brown	+24VDC
Black	Strobe signal
Blue	GND

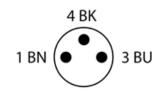
With an M8 connector (3-pin, male). Cable length up to 0.5m. For an illuminator without a strobe module.

For an illuminator without a strobe module, e.g. IDLH-150-75-24RM8	
Brown (BN)	+24VDC
Black (BK)	NA
Blue (BU)	GND



With an M8 connector (3-pin, male). Cable length up to 0.5m. For an illuminator with a strobe module.

For an illuminator with a strobe module, e.g. IDLH-150-75-24RSM8	
Brown (BN)	+24VDC
Black (BK)	Strobe signal
Blue (BU)	GND

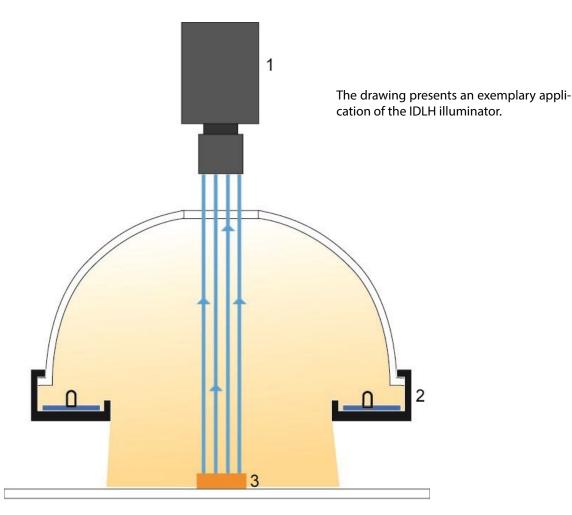






Installation and Application

The illuminator is installed using 4 M3x5 or M3x8 screws (not included with illuminators). The spacing between holes is shown on the overview drawing. It is recommended to mount the illuminator on the machine's metal structure, so that its largest surface is aligned with the structure in order to dissipate the most heat.



1 - Machine vision 2 - Illuminator 3 - Object



Warnings

	The surface of the illuminator may be hot.	Do not touch during opera- tion. HOT.
	Do not look directly into the light source.	Caution, LED radiation.
	Keep away from fire and high temperatures (above 40°C).	Keep away from fire.
4	Do not touch the device with wet hands.	Risk of electric shock or short circuit.
4	Do not wet clean the device or use a pressure washer.	Risk of electric shock or short circuit.
<u> </u>	Connecting incorrectly may cause damage to the device.	Connect according to the information on the device's casing.
	The device is designed for operation in a dry room environment.	Do not touch during opera- tion. HOT.
	Do not alter, cut or connect additional cables.	Exclusively use the original cable.
	Incorrect usage may lead to device damage.	Installation and application exclusively in accordance with technical documentation.
		Connect the device only with the power source cut off.
	Do not dismantle the device or remove original factory- -made components.	Disassembly and technical modifications are prohibited.
		Protect from fall damage, strong shocks or impact to the device casing.

WARRANTY TERMS AND CONDITIONS

All ISCON products are subject to a 24-month warranty starting from the purchase date.

	The warranty is nonoured under the following conditions:
	Presenting the purchase invoice as well as the device's serial number or sending the device to the ISCON company address.
—	The device must not have been disassembled, modified or otherwise customised to the user's needs. Incorrect installation (drilling through the casing or installing using different screws and holes than the ones anticipated by the manufacturer) voids the warranty.
	The device is powered with a direct current voltage 24-30V. Providing a higher or lower voltage or an alternate current may damage the illuminator and is not covered by the warranty.
	The device is designed for operation inside a dry room environment. Using it outside of a closed room may lead to exposure to moisture followed by damage and is not covered by the warranty.
	The device should not be cleaned using: water, pressure washers, hot steam, mechanical components and chemical agents.
-	The room in which the illuminator operates must not be air tight without any air exchange or ventilation.
-	The ambient temperature must be within 5-40°C.



Contact

ISCON

