

# SE/MARK IDSL (ID Sign Light) - NAI

- **Maintenance-free LED technology for the uniform illumination of ID signs (sign board sold separately)**
- **Smart photocell, levelling sensor, water ingress detection, optical feedback and LED monitoring**
- **Standard NAI bus interface for power supply and communication**
- **Adjustable intensity pre-sets by NAI bus**

The IDSL-NAI-350 is designed for the uniform illumination of ID Sign Boards up to 1250 mm high by 1300 mm wide to satisfy IALA G1162 recommendations.

The IDSL-NAI-1000 is designed for the uniform illumination of ID Sign Boards up to 1500 mm high by 2200 mm wide to satisfy IALA G1162 recommendations.

The ruggedized stainless-steel design integrates the optical head and mechanical support into a single device.

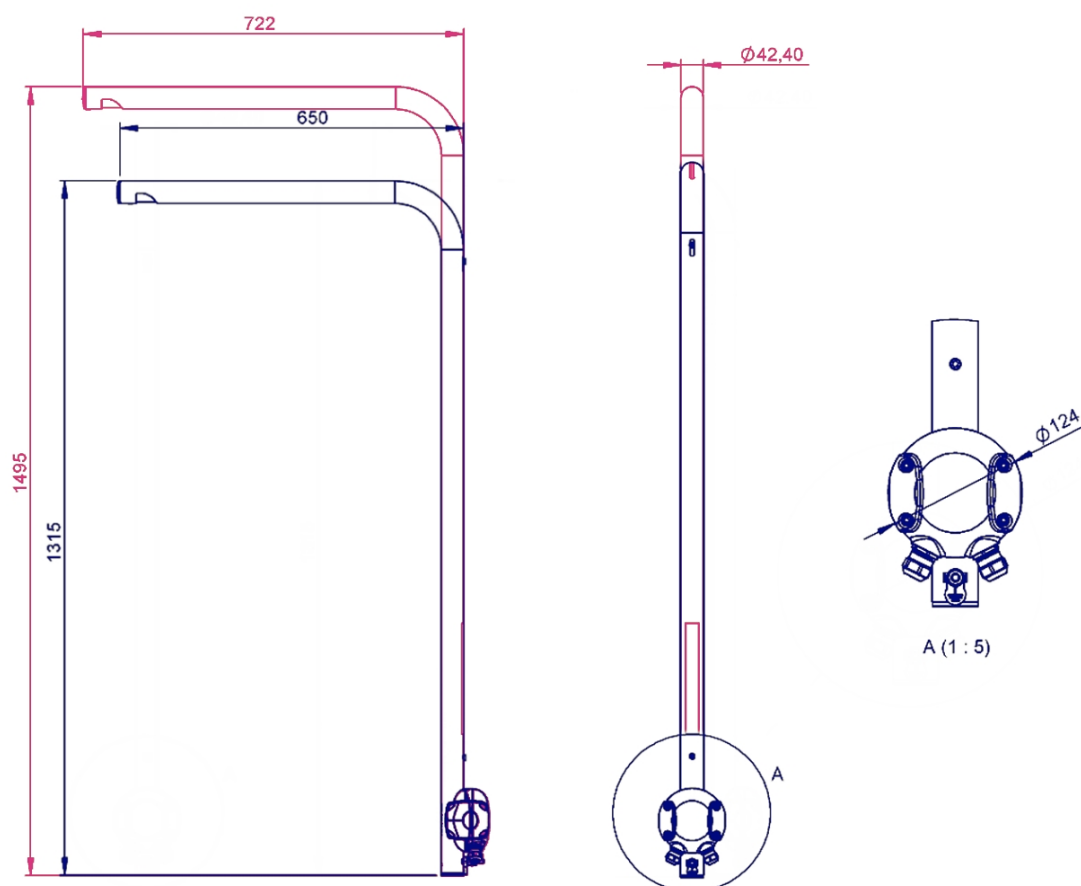
A smart photocell ensures accurate day to night switching by distinguishing between the light produced by the ID Sign Light and ambient light.

## Versions Available

IDSL-NAI-350 - for 350 mm high letters

IDSL-NAI-1000 - for 1000 mm high letters

## Dimensions & Weight



	IDSL-NAI-350	IDSL-NAI-1000
Diameter of junction Box	124 mm	124 mm
Diameter of stainless-steel enclosure	42 mm	42 mm
Height	1315 mm	1495 mm
Depth (arm extension)	650 mm	722 mm
Weight	5.2 kg	5.9 kg
Maximum associated sign board dimensions	1300 x 1250 mm	2200 x 1500 mm

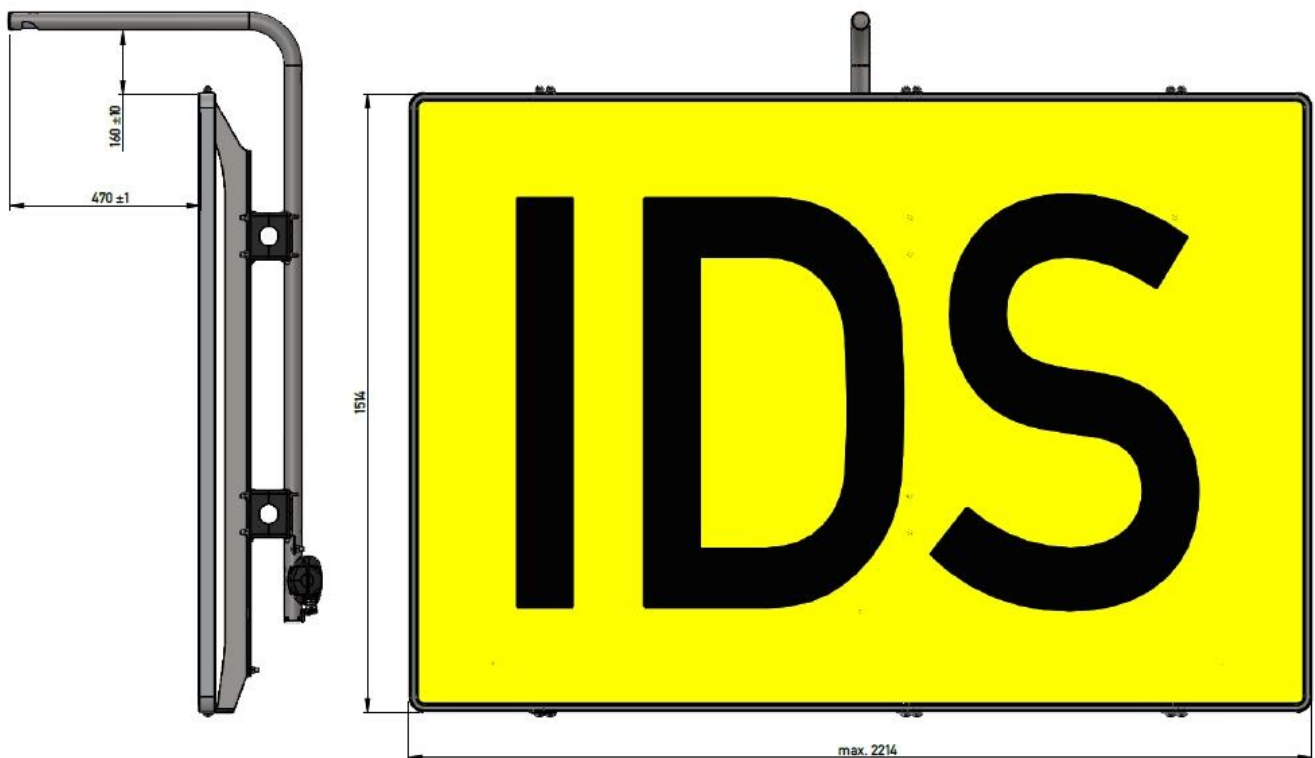
## Material

Tube	Stainless Steel 316L / 1.4404
Housing Junction Box IDSL-350 / IDSL 1000	LEXAN™ Resin EXL5689
Housing Optical Head	LEXAN™ LS2
Gasket	THERMOLAST® K TC3GPZ

## Optical System

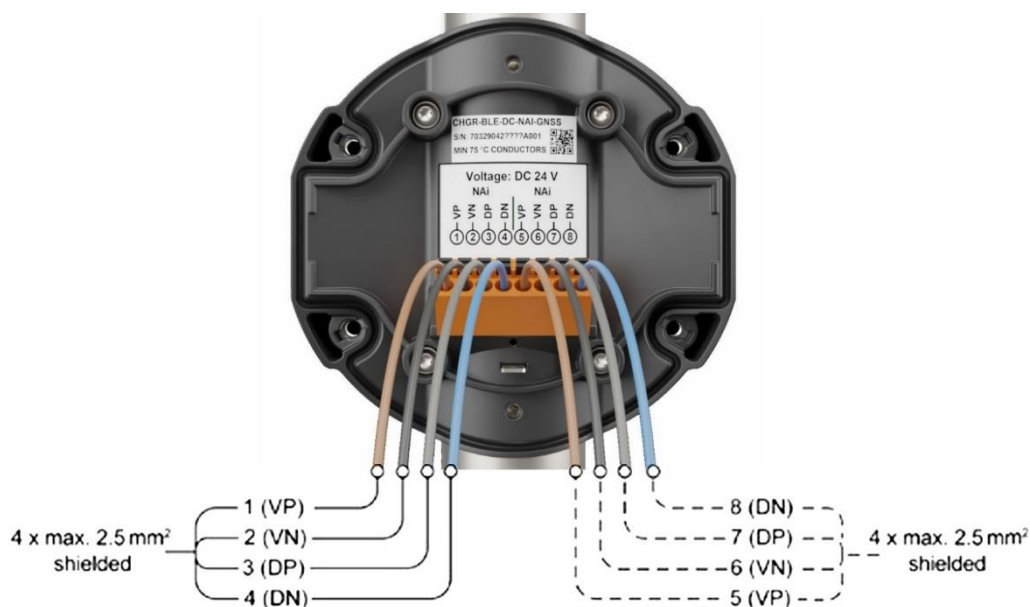
	IDSL-NAI-350	IDSL-NAI-1000
Light Colour	3000 k (White)	3000 k (White)
Uniformity Ratio	1:5	1:10
Illuminance	min. 25 lx	min. 25 lx
Radiance lamp group (acc. To EN 62471:2008)	RG1	RG1
Irradiance lamp group (acc. To EN 62471:2008)	RG0	RG0

The ID sign light is installed above the area to be illuminated (up to 1250 mm high by 1300 mm wide for the IDSL-NAI-350, up to 1250 mm high by 2200 mm wide for the IDSL-NAI-1000). The following drawings show the installation data including the position and optimum distance.



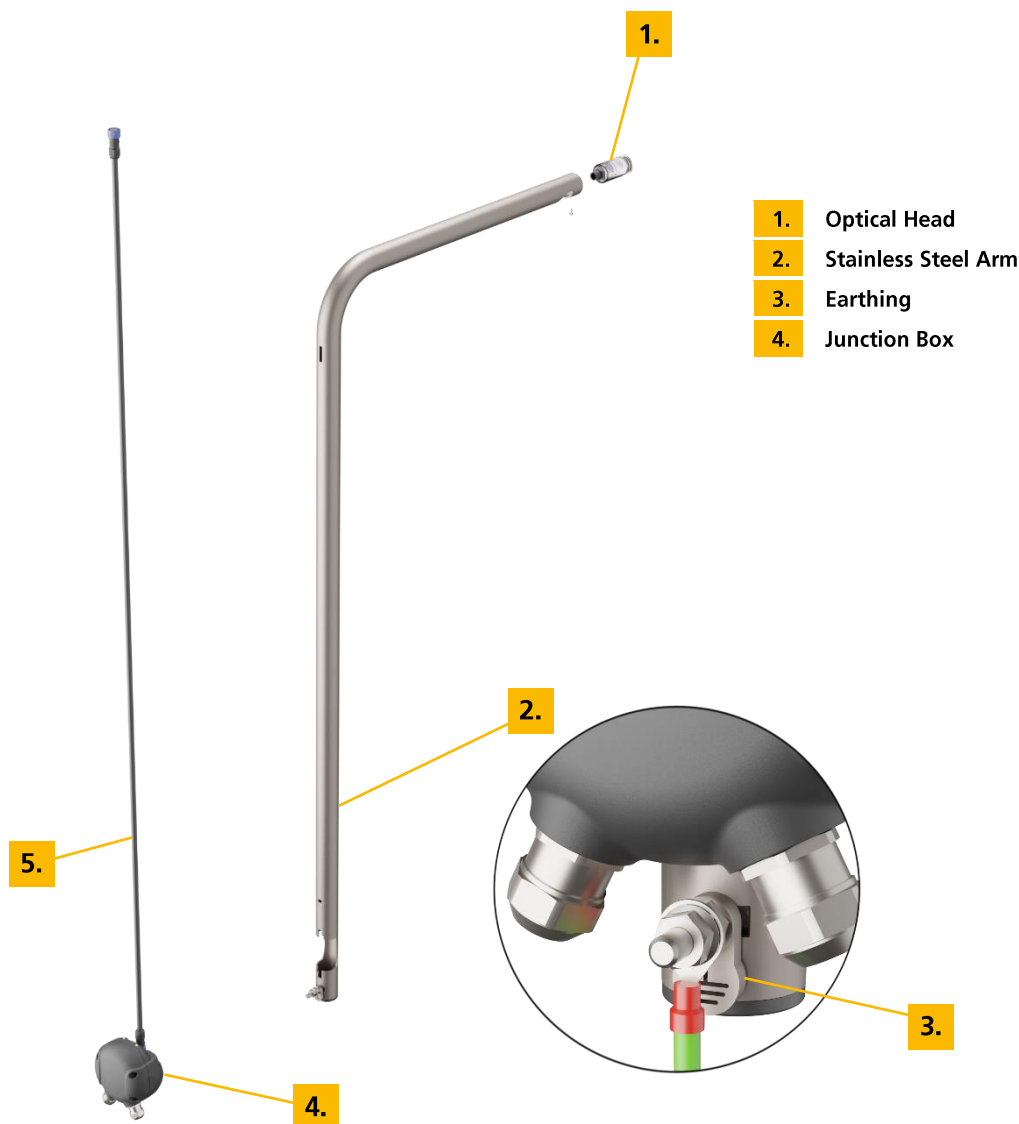
## Electrical Connection

	IDSL-NAI-350	IDSL-NAI-1000
Electrical connection	Spring terminal block, max. 2.5 mm <sup>2</sup>	Spring terminal block, max. 2.5 mm <sup>2</sup>
Operating voltage $V_{IN}$	DC 24.0 V (-15 % / +25 %)	DC 24.0 V (-15 % / +25 %)
Power consumption (Peak, $V_{IN}$ = DC 24 V)	1.2 W	1.6 W



1	VPI	Power supply input (Positive)
2	VN	Power supply input (Negative)
3	DP	NAi data (Positive)
4	DN	NAi data (Negative)
5	VPO	Power supply output (Positive – to next device)
6	VN'	Power supply output (Negative – to next device)
7	DP'	NAi data (Positive – to next device)
8	DN'	NAi data (Negative – to next device)

## Components



Note: All housing components including the cable glands satisfy the IP67 degree of protection requirements according to IEC 60529. During connection and assembly, ensure that no moisture or dirt penetrates into the open socket.

	Size	For cable diameter	Key width
EMC Cable Gland	M20 x 1.5	8.0 – 15.0 mm	24 mm

## Environmental Conditions

Ambient temperature (operation)	-25 °C to 55 °C
Ambient temperature (storage / transport)	-40 °C to 70 °C
Humidity (operation / storage / transport)	95 % r.h. up to 45 °C 70 % r.h. for T > 45 °C
Atmospheric pressure (operation / storage / transport)	80 kPa to 108 kPa
Degree of protection (acc. to IEC 60529)	IP66, IP67
Luminaire classification (acc. to EN 60598-1:2018)	Rough service luminaire
Wind zone classification (acc. to IEC 61400-1 Ed. 4)	I
Lightning protection zone (acc. to IEC 62305-4:2010)	LPZ0 <sub>B</sub>

## Electrical Safety and Health

Protection class	Class III
Overvoltage protection	Class III
Pollution degree	3

## Reliability

IALA Category	1* (assumed MTTR of 96 h)
MTBF Electronics	1 083 000 h
Minimum LED lifetime	100 000 h

\* IALA Recommendation O-130-Categorisation and Availability Objectives for Short Range AtoN

## Compliance

Electromagnetic Compatibility	EN 60945:2002, category "exposed" EN 61547:2009 EN 61000-6-2:2005 EN 61000-6-4:2007 + A1:2011 EN 55015:2013 EN 62479:2011 ETSI EN 303 446-2 V1.2.0 (201903) ETSI EN 301 489-17 V3.1.1 ETSI EN 301 489-1 V2.1.1 ETSI EN 300 328 V2.1.1 ETSI EN 300 330 V2.1.1 FCC Part 15 B
Environmental	EN 60945:2002, category "exposed" IEC 61892-1:2019 EN 60598-1:2015 + A1:2008
Product Safety	EN 60598-1:2015 + A1:2018 EN 60598-2-5 :2015
Health	EN 62471:2008
Mechanical	EN 60945:2002, category "exposed" EN 60598-1:2015 + A1:2018 EN 60598-2-5:2015 IEC 61892-1:2019 IEC 61892-3:2019

## Ordering Information

Item Number	Product ID	Details
30 29 48 00	IDSL-NAI-350	ID Sign Light for 2 Rows of $\pm 350$ mm Letters
30 29 47 00	IDSL-NAI-1000	ID Sign Light for $\pm 1000$ mm letters
30 20 70 00	IDSB-350	ID Sign Board for 350 mm letters
30 20 71 99	IDSB-1000	ID Sign Board for 1000 mm letters