



ALS 410 NAI



SKU: N/A

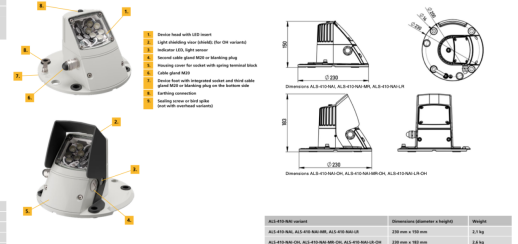
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GALLERY IMAGES



Electrical connection	
Operating voltage (V)	5V DC (max. 5.5 V)
Power consumption (W)	10 W
Max. cable length (m)	100 m
ALS 410 NAI, ALS 410 NAI-01, ALS 410 NAI-02, ALS 410 NAI-03, ALS 410 NAI-04	10 W

Electrical connection		
1	5V	Power supply input (Positive)
2	5V	Power supply input (Negative)
3	0V	NAI data (Positive)
4	0V	NAI data (Negative)
5	5V	Power supply output (Positive - 100 mW max.)
6	5V	Power supply output (Negative - 100 mW max.)
7	0V	NAI data (Positive - 100 mW max.)
8	0V	NAI data (Negative - 100 mW max.)



PRODUCT DESCRIPTION

ORIGINAL NAI Floodlight

- Fulfills the German TF13 requirements
- Optimised optical head for 1:10 uniform illumination
- Anodised & powder-coated housing for better corrosion protection
- Class III over voltage protection
- 60.000 hours minimum LED lifetime

The ALS410 is used for short range illumination of the daytime marking on the turbine tower of transition piece. It fulfils the German TF13 requirements for color, illumination uniformity and intensity.

As an NAI product, it the floodlight is easily integrated into the NAI bus for power, communication and control. Status and error messages



are sent to the central NAI Controller and the information is available through the central SCADA system

The floodlight's integrated NAI bus interface is used to supply power and control the intensity and switching status and to transmit status and error messages to the central NAI Controller. The messages are then available to the central SCADA system.

Integrated operational monitoring detects LED failure, errors in electronic control as well as supply voltage problems, excess temperatures and interruptions communication.

In the case of interrupted bus communication, the integrated ambient light sensor triggers the light to turn on when the environmental brightness falls below a minimum brightness level. (configurable)

Technical Data

DIMENSIONS (diameter x height)

ALS-410-NAI, ALS-410-NAI MR,
ALS-410-NAI LR 230 mm x 150 mm

ALS-410-NAI OH, ALS-410-NAI MR-OH, ALS-410-NAI LR-OH 230 mm x 183 mm

WEIGHT

ALS-410-NAI, ALS-410-NAI MR,
ALS-410-NAI LR 2,1 kg

ALS-410-NAI OH, ALS-410-NAI MR-OH, ALS-410-NAI LR-OH 2,6 kg

MATERIAL

Housing Anodised, powder-coated
(Device foot, head, cover for socket) aluminium (AlSi12)

Lens PMMA

Cover LED insert Makrolon® AL2647

Cable gland Nickel-plated brass

Earthing connection Stainless steel 1.4571

Cover indicator LED PMMA

Insulation sleeve PA

Seals TPE, injection-molded

Pressure compensation valve
for socket and housing PTFE membrane

Shield (OH variants only) Stainless steel 1.4571, powder coated

OPTICAL SYSTEM

Light colour 3000 K

Uniformity [E_{min} : E_{max}] ≥ 1 : 10

ELECTRICAL CONNECTION



Electrical connection	Spring terminal block, max. 2.5 mm ²
Operating voltage VIN	DC 19 to 36 V DC
Power consumption (VIN = 24 V DC - max. intensity)	
ALS-410-NAI, ALS-410-NAI OH	14 W
ALS-410-NAI MR, ALS-410-NAI MR-OH	12 W
ALS-410-NAI LR, ALS-410-NAI LR-OH	11 W
ENVIRONMENTAL CONDITIONS	
Regulations	IEC 60945, device type 'exposed'
Ambient temperature (operation)	-40 °C to 55 °C
Ambient temperature (storage / transport)	-40 °C to 70 °C
Humidity (operation / storage / transport)	Max. 95 % acc. To IEC 60945
Atmospheric pressure (operation / storage / transport)	80 kPa to 108 kPa
Degree of protection (acc. to IEC 60529)	IP67
Electrical Safety and Health	
Protection class	Protection class
Overvoltage protection	Class III
Pollution degree	3
RELIABILITY	
MTBF (Electronics and LEDs) (acc. To SN 29500-1)	780 000 h
Minimum LED lifetime	60 000 h
MECHANICAL REQUIREMENTS	
Vibration testing sinusoidal vibrations	acc. to IEC 60945