



ABOUT NANHUA



Nanhua Electronics Co.,Ltd. was established in 1990 focusing on research and development of the industrial products for harsh industrial application, concerning people working under high risk condition like ports, mines, metallurgical plants, wind power, tall buildings, vessels, etc. Our engineers frequently visit the application sites in order to research and develop the most reliable industrial signal, lighting and control products.



Nanhua keeps rigorous products R&D and quality control, certified by ISO9001:2015 quality management system. We award more than 77 patents, 135 FAA, ICAO, SABS, CAAC test reports and UL&cUL, SAA, CE certificates issued by world famous third-party laboratory, authoritative and approval.

Nanhua designs and manufactures industrial LED lighting fixtures available for a wide variety of applications, including high vibration, corrosion, hazardous locations, and marine environments. Nanhua LED lighting fixtures had been installed on container cranes worldwide and we are ideally committed to improve crane performance and reduce maintenance costs.

Today, NANHUA products and solutions have been successfully applied to the global ports, mining sites, airports, wind power and other industries. Our company has become an execution standard in part of industrial fields and our products are regarded as a high-performance solution. We will continue to insist the concept of reliable and safe research, to keep exploring the latest technology and to develop new products to help customers solve problems and realize the improvement of customer value.

Products Solution Loader



LED Work Light:
LW15

LED Work Light LW2S



Rated voltage	9-16VDC/18-32VDC
Rated Power Consumption	14W/16W
Electromagnetic	IEC61000-4-2
Compatibility	Contact discharge: ±8KV Air discharge: ±15KV
EMC	EN 55015/ CISPR 15
LEDs life time	>50000h
IP rate	IEC60529 IP68/IP69K
Vibration-resistant level	IEC60068-2-6 10G
Salt spray rate	ISO9227 240H
Weight	0.4kg



LED Work Light LW1E



Rated voltage	9-32VDC
Rated Power Consumption	14W/18W/30W/40W/48W
Electromagnetic	IEC61000-4-2
Compatibility	Contact discharge: ±8KV Air discharge: ±15KV
IP rate	IEC60529 IP68/IP69K
Vibration-resistant level	IEC60068-2-64 8Gms 24-2000Hz IEC60068-2-6 20G
Weight	14W-18W 0.8kg 30W-48W 1.0kg



LED Work Light LW21



Rated voltage	18-32VDC
Rated power consumption	18W
Electromagnetic	Contact discharge: ±8KV
Compatibility	Air discharge: ±15KV
LEDs life time	>50000h
Color temperature	5700K
Operating temperature	-40°C ~ +70°C
Vibration resistant level	IEC60068-2-6 20G
IP rate	IEC60529 IP68/IP69K
Salt spray rate	ISO9227 720H
Weight	0.6kg



LED Work Light LW1R



Rated voltage	9-32VDC
Rated Power Consumption	8W/14W/18W/30W
Electromagnetic	IEC61000-4-2
Compatibility	Contact discharge: ±8KV Air discharge: ±15KV
IP rate	IEC60529 IP68/IP69K
Vibration-resistant level	IEC60068-2-64 8Gms 24-2000Hz IEC60068-2-6 20G
Weight	8W-18W 0.6kg 30W 0.8kg



LED Work Light LW23



Rated voltage	18-32VDC
Rated power consumption	48W/60W
EMC	EN 55015/ CISPR 15
LEDs life time	>50000h
Color temperature	Cold white:5700K Warm white:2700K
Operating temperature	-40°C ~ +85°C
Vibration resistant level	IEC60068-2-6 20G
IP rate	IEC60529 IP68/IP69K
Salt spray rate	ISO9227 720H
Weigh	2.5kg



LED Work Light LW1S



Rated voltage	9-32VDC
Rated Power Consumption	8W/14W/18W/30W
Electromagnetic	IEC61000-4-2
Compatibility	Contact discharge: ±8KV Air discharge: ±15KV
IP rate	IEC60529 IP68/IP69K
Vibration-resistant level	IEC60068-2-64 8Gms 24-2000Hz IEC60068-2-6 20G
Weight	8W-18W 0.6kg 30W 0.8kg



1st edition, Aug 2023

NANHUA
Born for safety

SIGNAL LIGHTING CONTROL SYSTEM SOLUTION FOR CONSTRUCTION MACHINERY

Continued attention to people in high-risk operations
To provide cutting edge signal, lighting, control products and solutions worldwide



SIGNAL LIGHTING CONTROL PRODUCTS & SOLUTIONS

LED Work Light LW15



Rated voltage	9-14VDC/18-32VDC
Rated Power Consumption	14W 16W 18W
Lightning surge	GB/T 17626.2-2006 ±1000V
Electrostatic discharge	GB/T 17626.5-2008 ±8KV
EMC	EN 55015/ CISPR 15
LEDs life time	>50000h
IK rate	IK08
IP rate	IEC60529 IP68/IP69K
Vibration-resistant level	IEC60528 30G
Anti-shock	IEC60528 60G
Weight	0.4kg



Warning Beacon AL80RGB



Rated voltage	9-32VDC
Rated power consumption	<10W
Sound level	<110dB
Color	Red/Green/Blue/Yellow/ Cyan/Magenta/White
Operating temperature	-30°C~+55°C
Operating humidity	10%-95% (Non condensation)
IP rate	IP65
Cover material	PC
Weight	0.5kg



LED Cabinet Light LW10



Rated voltage	100-240VAC/24VDC
Rated Power Consumption	3W/6W
Frequency	50Hz/60Hz
LEDs life time	>50000h
CCT	5700K
Lumen per Watt	100lm/w
CRI	Ra>72
Housing material	Aluminum alloy
Operating temperature	-40°C~+50°C
Storage temperature	-40°C~+55°C
Weight	0.1kg(3W) 0.2kg(6W)



Beacon LR09



Rated voltage	9-32VDC
Rated power consumption	<3W(average) 6.5W(peak)
Wiring	Bottom/Side entry
Intensity	<50cd
LEDs lifetime	>100,000h
Operating temperature	-30 °C~+55°C
Cover color	Red/Amber
Vibration resistant rate	IEC60068-2-6 2G
IP rate	IEC60529 IP65
Weight	0.3kg



Warning Beacon AL80



Rated voltage	110-240VAC/24VDC
Frequency	50Hz/60Hz
Power consumption	10W
Alarm mode	Audible visible synchronized/ Audible visible separated
Operating temperature	-30°C~+70°C
Material	Housing: PA6+GF30%, Cover: PC
Sound level	108dB-114dB
IP rate	IEC60529 IP65
Weight	0.5kg



Warning Beacon LR13S



Rated voltage	9-32VDC
Rated power consumption	<6W(average), <12W(peak)
EMC	IEC 61000-4-2±1000V IEC 61000-4-5±8000V
Light color	Red/Amber
Intensity	>100cd
Operating temperature	-30°C~+55 °C
Operating humidity	10%-95%RH
IP rate	IP66
Weight	0.6kg



Products Solution Excavator



LED Work light series:
LW15/LW21/LW23/LW1
Audible visual alarm:
AL80
Warning beacon series:
LR13S/LR13

SIGNALS

Warning Alarm
Aviation Obstruction Light
Helideck Lighting System
Industrial Display
Wind Sensor
Anti-collision System

LIGHTING

High Bay, Low Bay,
Flood Light, Linear Light
High Mast Light
Work Light
Ex / Marine Light
Emergency Light

CONTROLS

Communication & Intercom
Control System
Monitoring and Software
Intelligent Lighting System



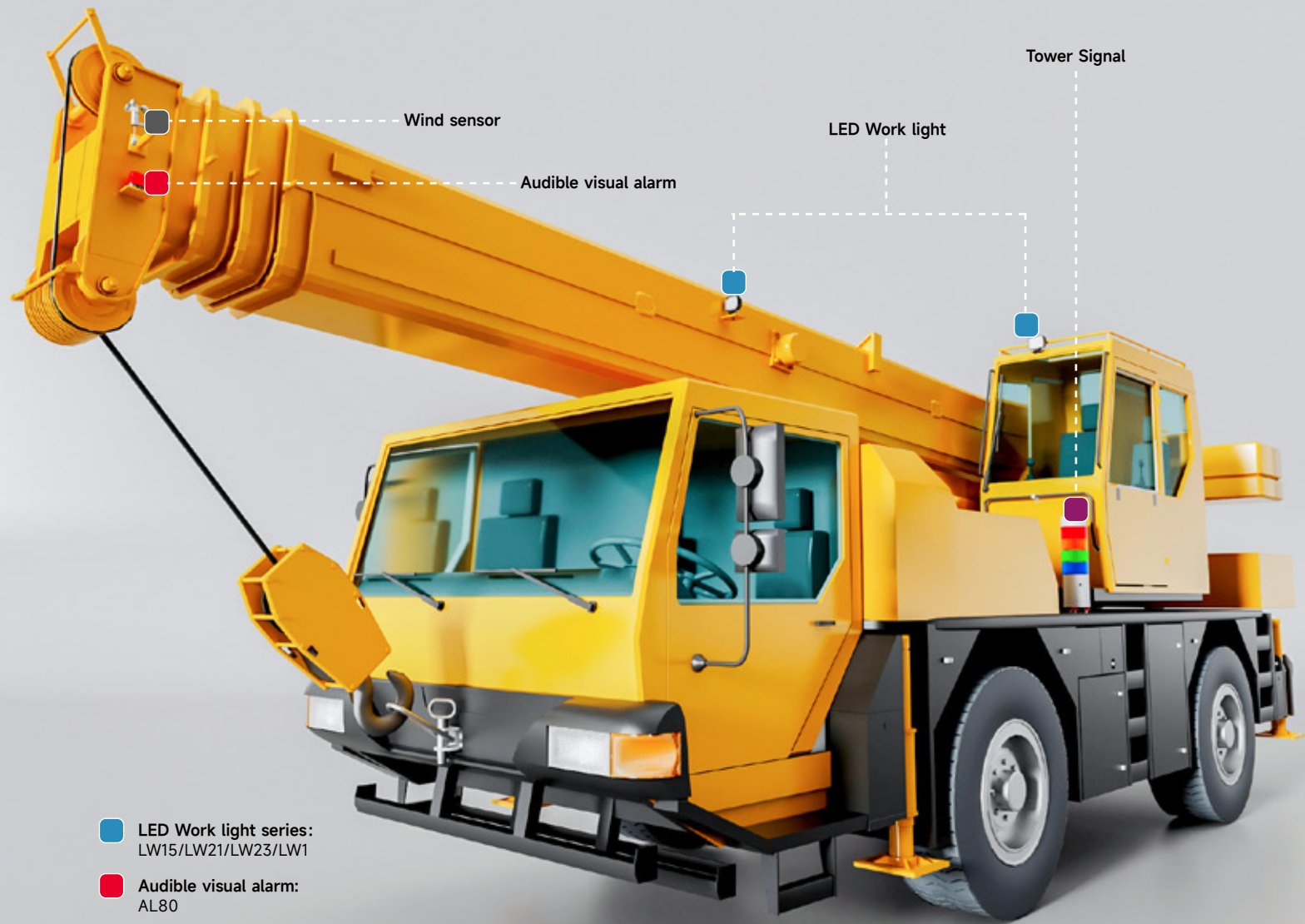
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Engineering Machinery



To make engineering machinery safer, more efficient and standardized. Reliable indicators and lights must be used to regulate the working environment while the machinery is working, so as to maintain the safety of machinery, personnel and minimize losses.

Products Solution Mobile Crane



- LED Work light series: LW15/LW21/LW23/LW1
- Audible visual alarm: AL80
- Tower Signal: AL115
- Wind sensor series: FA01/FA13B

Rated voltage	8-14VDC/18-32VDC/110-240VAC
Rated power consumption	AC380V/AC460V
Alarm mode	Flash, Steady burning
Light source	LED
Color	Red, Amber (optional)
Intensity	>300cd
IP rate	IP66
Weight	0.8 kg

CE	IP 66	AC DC	75°C -40°C
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Warning Beacon LR13



Rated voltage	8-14VDC/18-32VDC/110-240VAC
Rated power consumption	<40W
Alarm mode	Flash, Steady burning
Light source	LED
Color	Red, Amber (optional)
Intensity	>300cd
IP rate	IP66
Weight	0.8 kg

CE	IP 66	AC DC	75°C -40°C
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Buzzer AE301



Rated voltage	24VDC/12VDC
Rated power consumption	<8W
Tone	Tone D/A/B/E/H/Y
Horn Parameter	Piezoelectric horn
Sound level	110dB
Wiring	Cable gland/Terminal block
Operating temperature	-30°C~+70°C
Operating humidity	10%~95% (Non condensation)
Lead length	1m
Weight	0.3kg

CE	IP 66	DC	70°C -30°C
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Tower Signal AL115



Rated voltage	12VDC/24VDC
Rated power consumption	10W
Tone	A/B/D/Y(optional)
Sound level	0~110dB(adjustable)
Wiring	Lead wire
Light color	Red/Yellow/Green/Blue
IP rate	IP65
Operating temperature	-50°C~+70°C
Mounting	Bolt mount
Weight	1-2layer (1.56kg/1.78kg) 3-4layer (2kg/2.22kg)

CE	IP 65	DC	70°C -30°C
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PA Siren Alarm AS201



Rated voltage	12VDC/24VDC
Rated power consumption	30W/50W
Tone	Tone A/B/E
Speaker parameters	80W/80Ω(Standard 1 piece) 80W/16Ω(Standard 2 piece)
Compliance	GB8108-1999
Sound level	106dB-110dB
Operating temperature	-20°C~+70°C
Operating humidity	10%~95% (Non condensation)
Weight	1kg

CE	DC	70°C -20°C
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Laser Anti-collision System AE422



Rated voltage	85-265VAC
Frequency	50Hz/60Hz
Power consumption	<10W
Sound level	80dB(max)
Weight	0.5kg

AC DC	55°C -30°C
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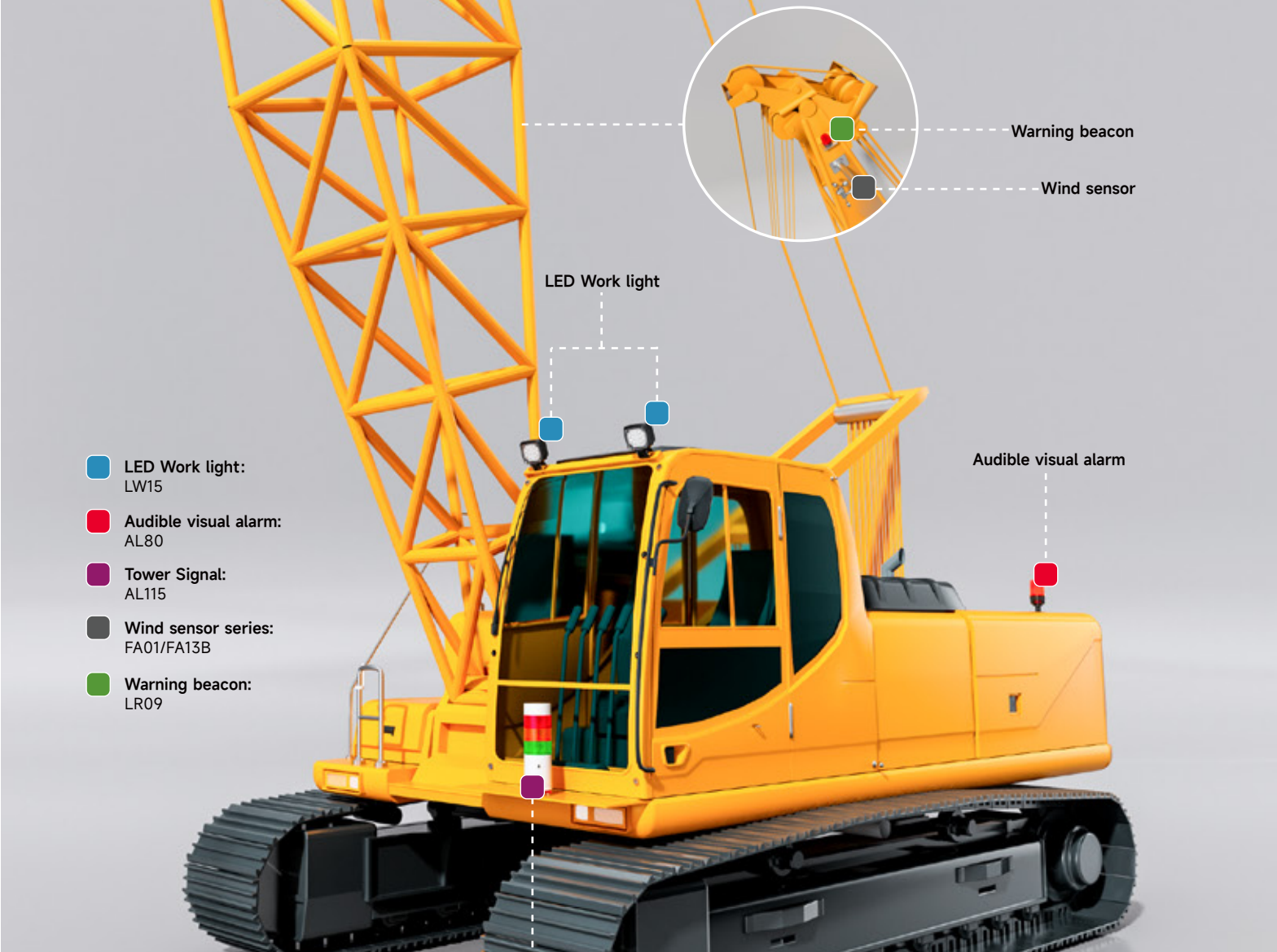
Aviation Obstruction Light, Type C LS730U(L)



Input voltage	12-24VDC
Rated power consumption	1.5W(flash)
Effective intensity	>50cd
Luminous color	Yellow/Blue
Flash rate	80 FPM
LEDs lifetime	>100,000h
On/off level	400±100lux
IP rate	IEC60529 IP65
Operating humidity	10%~95% (Non condensation)
Weight	0.5kg

CE	IP 65	DC	70°C -40°C	100,000 hrs
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Products Solution Crawler Crane



- LED Work light: LW15
- Audible visual alarm: AL80
- Tower Signal: AL115
- Wind sensor series: FA01/FA13B
- Warning beacon: LR09

Rated voltage	12VDC/24VDC
Rated power consumption	10W
Tone	A/B/D/Y(optional)
Sound level	0~110dB(adjustable)
Wiring	Lead wire
Light color	Red/Yellow/Green/Blue
IP rate	IP65
Operating temperature	-50°C~+70°C
Mounting	Bolt mount
Weight	1-2layer (1.56kg/1.78kg) 3-4layer (2kg/2.22kg)

CE	IP 65	DC	70°C -30°C
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Make engineering machinery safer, more efficient and standardized



NANHUA has provided products and service to engineering machinery manufacturers since 2003, and our major customers include KOMATSU, CATERPILLAR, LIEBHERR, XCMG,SANY,and ZOOMLION among others. Being the first company to accept EU and US standards to design lighting and safety products in China, we have achieved a long-term development compared with our competitors.

Wind Speed Sensor FA13B



Rated voltage	12-30VDC
Operating current	Max.50mA
Heating voltage	18-30VDC
Rated power consumption	<15W
Starting threshold	<0.5m/s Vu=20 C
Wind load	>70m/s
Measuring range	0~50m/s
Accuracy	±0.5m/s/±3%VL Max.
Resolution	0.1m/s
IP rate	IEC60529 IP65
Weight	1.5kg

DC	IP 65	70°C -40°C
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Wind Speed Sensor FA01



Rated voltage	18-30VDC
Operating current	Max.35mA
Lightning surge protection	IEC61000-4-54kV/2kA
Starting threshold	<0.5m/s
Wind load	>70m/s
Measuring range	0~60m/s
Accuracy	±0.5m/s(VL<5m/s)
Operating temperature	-40°C~+70°C
IP rate	IEC60529 IP65
Weight	0.2 kg

IP 65	70°C -40°C	DC
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Wind Data Display FA130C



Rated voltage	12-24VDC/85-265VAC
Multi-signal output	Two-way relay alarm output (Pre-alarm-NO, Alarm-NC)
	RS485 protocol
	4~20mA
	Load <500Ω
Wind speed range	0~999m/s
Operating humidity	0%~100%RH
Operating temperature	Ta -30°C~+70°C
Housing color	Black RAL9005
Weight	0.5kg

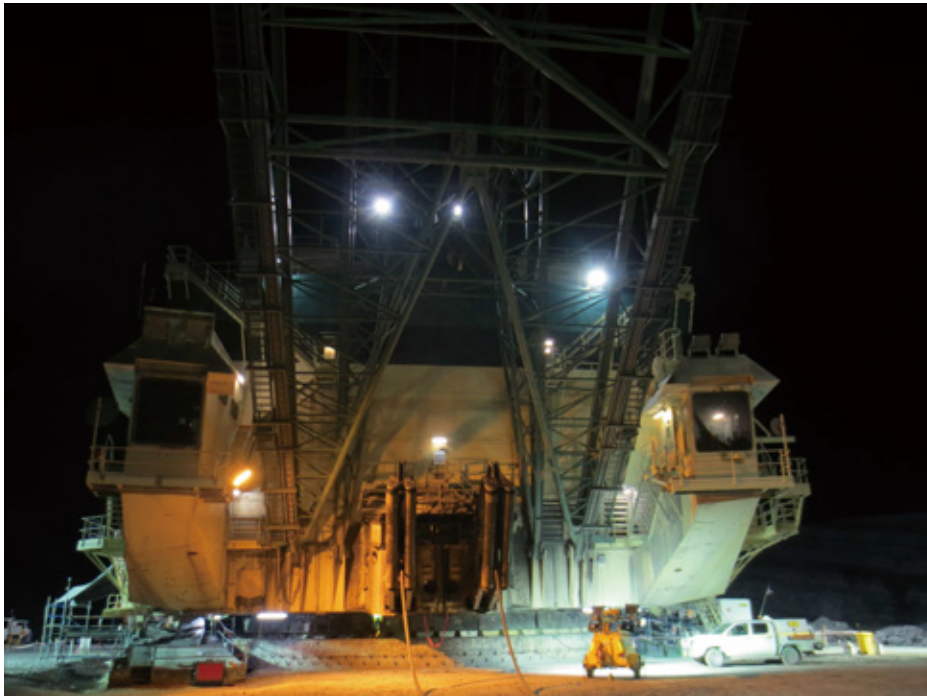
IP 54	70°C -30°C	AC DC
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VoIP Paging Intercom System DT80



Rated voltage	100-240VAC/ DC24V
Built-in speaker	3W/4Ω
Paging volum	<110dB(external connected loud speaker)
Communication	Handset communication/
Body material	DT801(ABS); DT802/ DT812 (PC/ABS); DT803(Cold rolled sheet)
Weight	DT801(1.9kg); DT802/ DT812 (3.9kg); DT803(4.9kg)

DC	IP 65	AC DC	70°C -40°C
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Products Solution Mining Truck

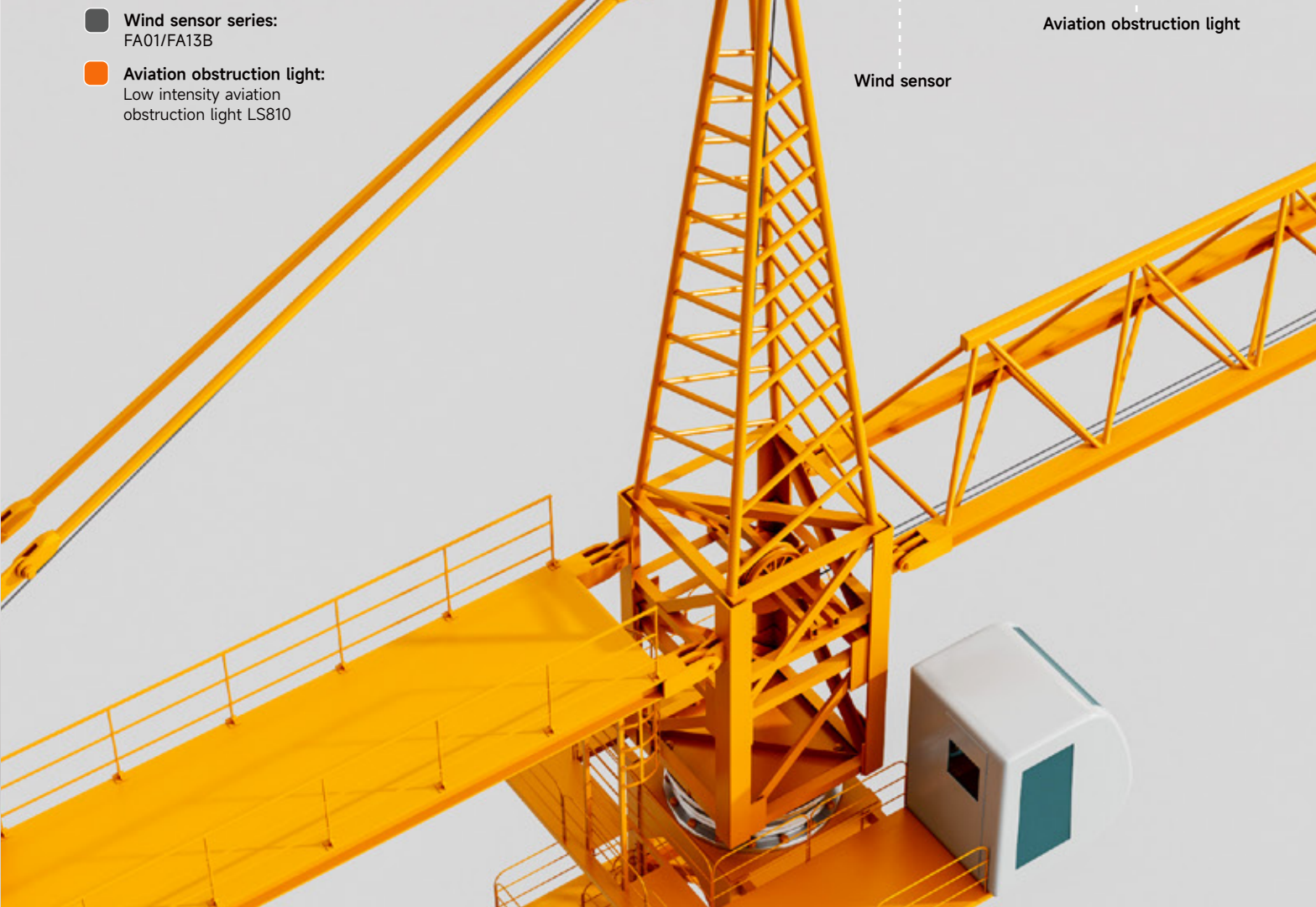


- LED Work Light: LW23

Rated voltage	12-24VDC/85-265VAC
Rated power consumption	<8W
Tone	Tone D/A/B/E/H/Y
Horn Parameter	Piezoelectric horn
Sound level	110dB
Wiring	Cable gland/Terminal block
Operating temperature	-30°C~+70°C
Operating humidity	10%~95% (Non condensation)
Lead length	1m
Weight	0.3kg

CE	IP 66	DC	70°C -30°C
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Products Solution Tower Crane



- Wind sensor series: FA01/FA13B
- Aviation obstruction light: Low intensity aviation obstruction light LS810

Rated voltage	12-24VDC
Rated power consumption	1.5W(flash)
Effective intensity	>50cd
Luminous color	Yellow/Blue
Flash rate	80 FPM
LEDs lifetime	>100,000h
On/off level	400±100lux
IP rate	IEC60529 IP65
Operating humidity	10%~95% (Non condensation)
Weight	0.5kg

CE	IP 65	DC	70°C -40°C	100,000 hrs
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