

LUMAWISE STREET LIGHT DIMMING AND CONTROL

LUMAWISE Endurance products from TE Connectivity provide reliable protection for the controls used in street and outdoor lighting. Endurance N products are NEMA/ANSI compliant. A receptacle connector is integrated into the light fixture and receives a base which is the foundation of the lighting control. In addition to offering this sealed interconnect solution between luminaire and control module the Endurance N product series also offers UV resistant high impact rated covers to fully seal and protect the lighting control. Endurance S products are used in sensor ready street lighting applications which are low voltage and DALI controlled. The newer and expanding Endurance S portfolio of products is compliant to Zhaga Book 18.

Features:

- ANSI C136 compliant
- Zhaga Book 18 compliant
- IP65 and IP66 sealing (CB Certified)
- IK09 high impact resistant
- UL UV-f1 rated plastic materials for outdoor use

Advantages and Benefits:

- Follows industry standards
- Enables energy management through dimming functionality
- Provides secure low torque mating of base and receptacle
- Extends life in harsh outdoor environments with UV resistant materials and effective sealing

Applications:

- Outdoor LED Lighting
- Highway Lighting
- Parking Lot Lighting
- Public Areas Lighting
- Railway Stations Lighting
- · Roadway Lighting
- Street & Area Lighting
- Tram Lines Lighting
- Lighting Controls





ANSI ZHAGA

C136 Book 18

"TE is a leader in enabling lighting OEMs to bring LED lighting and control to a new level addressing the evolving needs in our communities, cities, streets and highways for safety, energy management and connectivity."

- Scott Hamilton, Global Product Manager

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ZHAGA BOOK 18 STREET LIGHT CONNECTORS:

Reduce the complexity of street lighting architecture

LUMAWISE Endurance S Connector System is an ecosystem of products designed for sensor and other control system applications. The original Endurance S Zhaga Book 18 street light connectors enable DALI controlled Book 18 compliant luminaires for street and area lighting. The Endurance S ecosystem has been expanded to enable additional use cases. Endurance S Sensor Ready components offer all the original Endurance S benefits with expanded electrical ratings plus alternate key combinations for protected mating.

The Endurance S ecosystem of products includes a receptacle connector as well as several base and dome combinations to house sense and control modules from the surrounding harsh environment. The IP66 rated receptacle assembly, base and dome combinations provide a sealed electrical interface and robust packaging solution. The compact design is UV resistant, appealing to the eye and can be mounted facing upward, downwards or sideways. Having keyed mating combinations brings flexibility and differentiation to the designer.



LUMAWISE ENDURANCE S CONNECTORS HAVE BEEN DESIGNED AS A STAND-ALONE SYSTEM AND CAN BE USED IN A COMPLEMENTARY FUNCTION AS AN AUXILIARY SENSOR MODULE WHEN ADDITIONAL FUNCTIONALITY IS REQUIRED IN ANSI/NEMA BASED LIGHTING FIXTURES. INSTALLATION IS EASY AND FAST. PUSH-AND-TWIST WITH ONE HAND LOCKING DOES NOT REQUIRE ANY SPECIAL TOOLS.

ZHAGA BOOK 18 CONNECTOR SYSTEM

FEATURES:

- Compact size allowing greater flexibility in luminaire design
- IP66 sealing with no mounting screws
- Simple insert and rotate to lock feature, no tooling needed and one handed operation to install allows luminaires to be simply and quickly upgraded
- High impact protection IK09 rating
- Flexible mounting position. Top mounted, side mounted and bottom mounted facing
- Scalable solution allows use of Ø40mm and a Ø80mm controls with the same connection interface
- Poke-in contact design reduces logistics issues with needing different wire lengths for different luminaires
- · CB certification

APPLICATIONS:

- Street and Area Lighting
- Roadway Lighting
- Commercial/Municipal Outdoor Lighting
- Outdoor Luminaires
 - Wall Packs
 - Parking Lots
 - Walkways Photo Controls
- City Management System
- · Sensor modules i.e. motion

ELECTRICAL:

- Contact rating: 5A, 250V
- Meets 10kV dielectric withstand voltage to mounting surface 4 pole contacts

MECHANICAL:

Mounting: M20X1.5 threadHeight above luminaire: 10mm

• IP65 & IP66

Receptacle: Ø30mmGasket: Ø36.5mmThread length: 18.5mm

• IK09 rated system solution

MATERIALS:

- PBT receptacle
- LSR gasket
- Polycarbonate domes
- UL UV-f1 rated for outdoor use

SPECIFICATIONS:

Product: 108-133073 Application: 114-133074

• Rated IEC61984 and UL773

• CB Certified



ZHAGA BOOK 18 CONNECTOR SYSTEM

Product Selection Information

		Part Number	Description	Color	Height
racle - IG CAP		2213858-1	Receptacle (includes sealing ring, washer and nut)	-	-
RECEPTACLE SEALING CAI	•	2213795-1 2213795- 2	Sealing Cap	Dark Gray Light Gray	-
		Part Number	Description	Color	Height
		2213837-1	Base	-	-
OMES		2329013-1	Dome	Smoke Gray	Low (24.25mm)
40mm BASE - DOMES		1-2329013-1	Dome	Clear	Low (24.25mm)
		2329013-2	Dome	Smoke Gray	Tall (39.25mm)
		1-2329013-2	Dome	Clear	Tall (39.25mm)



2329013-2

LUMAWISE Endurance S Dome Smoke Gray - Tall - 40mm



2213837-1

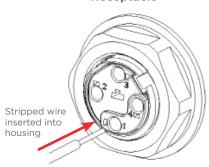
LUMAWISE Endurance S Base 40mm



2213858-1

LUMAWISE Endurance S Receptacle





Wire poke-in locations (4)

Pin #	Function
1	+24V power supply
2	Negative pole for Dali or Dali based protocol & shared ground return for 24V power supply
3	Positive pole for Dali or Dali based protocol
4	General digital I/O (greater than 7V)

Colored wire insertion markings and additional keying solutions are also available, contact **Product and Customer Support**.

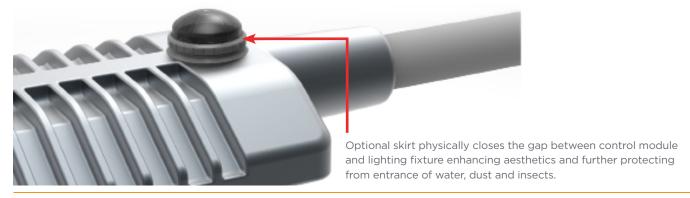
LUMAWISE Endurance S products represented on this page are not shown actual size.



ZHAGA BOOK 18 CONNECTOR SYSTEM

Product Selection Information

		Part Number	Description	Color	Height
		2213831-3	Base	-	-
		2213831-2	Base with Vent	-	-
ES		2328823-1	Dome	Smoke Gray	Low (33.43mm)
80mm BASES - DOMES		1-2328823-1	Dome	Clear	Low (33.43mm)
omm BAS		2328823-2	Dome	Smoke Gray	Medium (43.43mm)
80		1-2328823-2	Dome	Clear	Medium (43.43mm)
		2328823-3	Dome	Smoke Gray	Tall (58.43mm)
		1-2328823-3	Dome	Clear	Tall (58.43mm)
OPTIONAL ACCESSORIES	0	1-2337216-1	Skirt	Black	-
		1-2337216-2	Skirt	Light Gray	-
		1-2337216-3	Skirt	Dark Gray	-





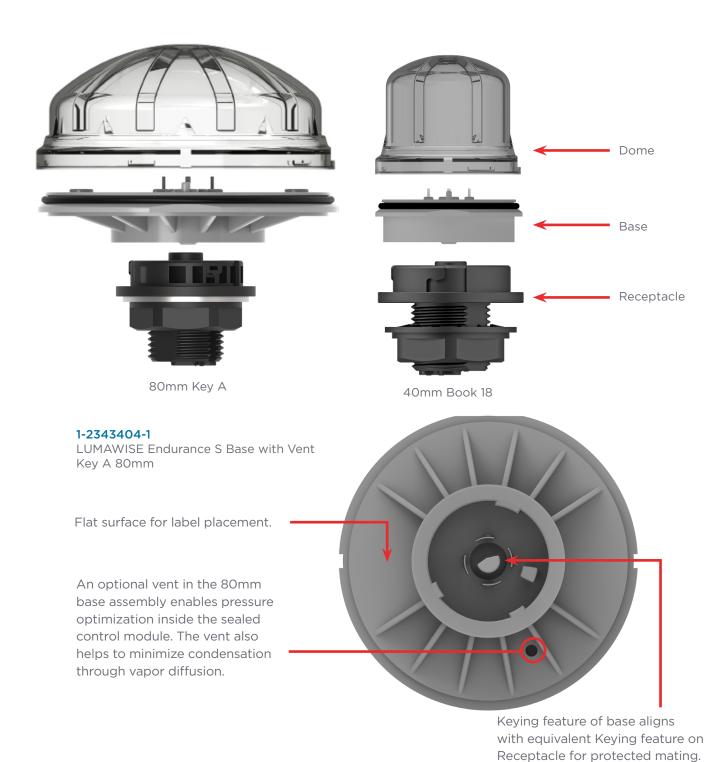
KEYED CONNECTOR SYSTEM

Product Selection Information

		Part Number	Description	Color	Key
RECEPTACLE - SEALING CAP		2343403-1	Receptacle (includes sealing ring, washer and nut)	Black	А
RECEP' SEALIN		2341474-1	Sealing Cap	Dark Gray	А
		Part Number	Description	Ke	ey .
3ASES	3	2343405-1	40mm Base	A	A
40mm/80mm BASES		2-2343404-1	80mm Base	A	A
40mm		1-2343404-1	80mm Base with vent	А	
		Part Number	Description	Color	Height
40mm DOMES		1-2329013-1	40mm Dome	Clear	Low (24.25mm)
40mm		1-2329013-2	40mm Dome	Clear	Tall (39.25mm)
ES		1-2328823-1	80mm Dome	Clear	Low (33.43mm)
80mm DOMES		1-2328823-2	80mm Dome	Clear	Medium (43.43mm)
80		1-2328823-3	80mm Dome	Clear	Tall (58.43 mm)

Additional dome colors also available, refer to previous pages for more information.

CONNECTOR SYSTEM



LUMAWISE Endurance S products represented on this page are shown actual size.

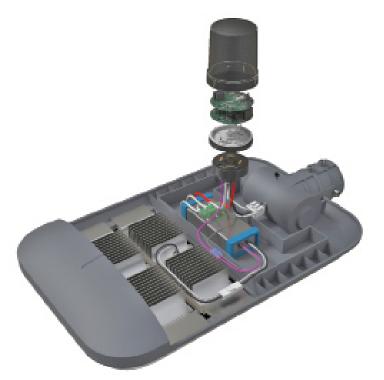


TE Connectivity is a participating member of the Zhaga Consortium, an industry-wide cooperation enabling the interchangeability of LED light sources and simplifying LED applications for general lighting.



NEMA/ANSI STREET LIGHT CONNECTORS:

NEMA/ANSI C136 compliant LUMAWISE Endurance N connectors provide an electrical and mechanical interconnection between an ANSI C136 compliant control and luminaire. Ideal for outdoor commercial and utility lighting the ANSI C136.41 compliant dimming receptacle is available with two or four dimming contacts to support either 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), while providing a reliable power interconnect with three robust twist lock contacts. Lumawise Endurance N control connectors include base assemblies and covers which when combined provide a sealed, IP66 rated control enclosure. The Endurance N product family also inludes caps and a power management sub-assembly.



"TE CONNECTIVITY'S LUMAWISE ENDURANCE N INTERCONNECTS PROVIDE AN ANSI C136 COMPLIANT ELECTRICAL AND MECHANICAL INTERFACE CONNECTION FOR ROADWAY, STREET AND AREA LED LUMINAIRES AND CONTROLS. OUR IOT READY ECOSYSTEM, EMBEDDED WITH ELECTRONICS, SOFTWARE, SENSORS AND CONNECTIVITY ENABLES LUMINAIRES TO SERVE AS A LIGHTING SOURCE AND A COMMUNICATION DEVICE THAT COLLECTS AND EXCHANGES DATA." ALEX HUNT III

FEATURES:

- ANSI Compliant
- Sealed interconnect solution
- Available with two or four dimming contacts to support one or two channel dimming protocols.
- Robust twist lock contacts for a reliable power interconnect.

- Street and Area Lighting
- Roadway Lighting
- Commercial Outdoor Lighting

 (i.e. parking lots, car dealerships)
- Photo Controls

ANSI C136.10 RECEPTACLE ASSEMBLY

ELECTRICAL:

• Power contacts: Current rating: 15 A max Voltage rating: 480 VAC/DC

• cUR recognized to UL 773

MECHANICAL:

- Conforms to dimensional requirements of ANSI C136.10
- Power contacts terminated to 14AWG stranded wire per UL1015 or UL3321

MATERIALS:

- Power contacts: Copper Alloy, tin over nickel plating
- Housing: Glass filled PBT, UL 94V-0 flammability rated

SPECIFICATIONS:

• Product: 108-32059

• Application: 114-32115/114-32148

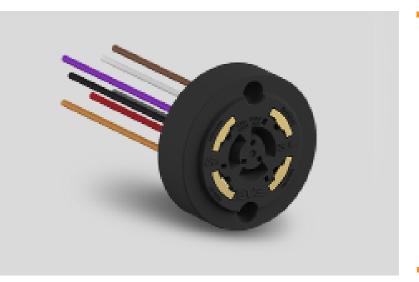
Product Selection Information

	Part Number	Description	Position	Wire	Required Sealing Gasket
	6-2213362-2	Standard Receptacle Assembly	3	150°C	- 2213469-1
	6-2213362-1			105°C	
	2213848-1	Detatable Decentagle Assembly	7	150°C	2217626 1
	2213848-2	Rotatable Receptacle Assembly	3	105°C	2213626-1



ANSI C136.41 STANDARD DIMMING RECEPTACLE ASSEMBLY

Ideal for outdoor commercial and utility lighting the ANSI C136.41 compliant dimming receptacle is available with two or four dimming contacts to support either 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), while providing a reliable power interconnect with three robust twist lock contacts.



ANSI C136.41 COMPLIANT DIMMING
RECEPTACLE PROVIDES AN ELECTRICAL
AND MECHANICAL INTERCONNECTION
BETWEEN AN ANSI C136.41-2013 COMPLIANT
CONTROL AND LUMINAIRE.

FEATURES:

- Accepts ANSI standard dimmable photocells to provide a connection between the photocell and the luminaire
- Available with two or four dimming contacts to support one or two channel dimming protocols
- Robust twist lock contacts for a reliable power interconnect
- Receptacle comes pre-terminated with wire leads for ease of integration into new or existing light fixtures
- Available with 105° and 150° C rated wire insulation for varying temperature rated luminaires
- Provides IP66 rating to the luminaire when mated with Endurance N control bases.

- Street and Area Lighting
- Roadway Lighting
- Commercial Outdoor Lighting (i.e. parking lots, car dealerships)
- Photo Controls

ANSI C136.41 STANDARD DIMMING RECEPTACLE ASSEMBLY

ELECTRICAL

Power contacts
 Current rating: 12 A max
 Valta na vatio at 400 VAC(II)

Voltage rating: 480 VAC/DC

• Dimming contacts

Current rating: 1.5 A max

Voltage rating: 30 VAC/DC

• cUR recognized to UL 773

MECHANICAL:

- Conforms to dimensional requirements of ANSI C136.41-2013
- Offer a 5 and 7 position version
- 5 position: 3 power contacts + 2 dimming/signal contacts
- 7 position: 3 power contacts + 4 dimming/signal contacts
- Power contacts terminated to 14AWG stranded wire per UL1015 or UL3321
- Signal Contacts terminated to 18AWG stranded wire per UL1015 or UL3321

MATERIALS:

- Power contacts: Copper Alloy, tin over nickel plating
- Dimming contacts: Copper Alloy, gold over nickel plating
- Housing: Glass filled PBT, UL 94V-0 flammability rated

SPECIFICATIONS:

Product: 108-32059 Application: 114-32115

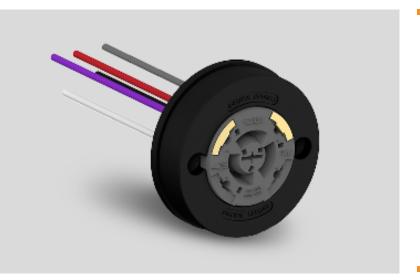
	Part Number	Description	Position	Wire Size
	2213362-1	Standard Dimming	5	150°C
	2213362-3	Receptacle Assembly	5	105°C
	2213362-2	Standard Dimming	7	150°C
221	2213362-4	Receptacle Assembly	7	105°C
	2213469-1	Sealing Gasket	-	-

Products available as ICE 61984 Class II Compliant - Double Insulation, Contact $\bf Product$ and $\bf Customer\ Support.$



ANSI C136.41 ROTATABLE DIMMING RECEPTACLE ASSEMBLY

Provides a rotatable electrical and mechanical interconnection between an ANSI C136.41-2013 photo control cell and luminaire. Ideal for outdoor commercial and utility lighting the ANSI C136.41 compliant dimming receptacle is available with two or four dimming contacts to support either 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), while providing a reliable power interconnect with three robust twist lock contacts.



LUMAWISE ROTATABLE DIMMING
RECEPTACLE IS A TWO-PIECE ASSEMBLY
WHICH ALLOWS ROTATION UP TO 355
DEGREES. THE ABILITY TO FULLY ROTATE
THE DIMMING RECEPTACLE FACILITATES
INSTALLATION AS IT ALLOWS THE PHOTO
NODE TO BE POINTED DUE NORTH
IN ANY TYPE OF STREET, AREA OR
ROADWAY LIGHTING APPLICATION.

FFATURES:

- Fully rotates up to 355 degrees
- Accepts ANSI standard dimmable photocells to provide a connection between the photocell and the luminaire
- Available with two or four dimming contacts to support one or two channel dimming protocols
- Robust twist lock contacts for a reliable power interconnect
- Receptacle comes pre-terminated with wire leads for ease of integration into new or existing light fixtures
- Available with 105° and 150° C rated wire insulation for varying temperature rated luminaires
- Provides IP66 rating to the luminaire when mated with Endurance N control bases.

- Street and Area Lighting
- Roadway Lighting
- Commercial Outdoor Lighting

 (i.e. parking lots, car dealerships)
- Photo Controls

ANSI C136.41 ROTATABLE DIMMING RECEPTACLE ASSEMBLY

ELECTRICAL:

• Power contacts: Current rating: 15 A max

Voltage rating: 480 VAC/DC

• Dimming contacts: Current rating: 1.5 A max

Voltage rating: 30 VAC/DC

cUR recognized to UL 773

MECHANICAL:

• Conforms to dimensional requirements of ANSI C136.41-2013

• Offer a 5 and 7 position version

• 5 position: 3 power contacts +

2 dimming/signal contacts

• 7 position: 3 power contacts +

4 dimming/signal contacts

Power contacts terminated to 14AWG stranded wire per

UL1015 or UL3321

 Signal Contacts terminated to 18AWG stranded wire per UL1015

MATERIALS:

• Power contacts: Copper Alloy, tin over nickel plating

• Dimming contacts: Copper Alloy, gold over nickel plating

Housing: Glass filled PBT, UL 94V-0

flammability rated

SPECIFICATIONS:

• Product: 108-32059

• Application: 114-32148

• Instruction sheet: 408-32196

Product Selection Information

	Part Number	Description	Position	Wire
	2213627-1	Rotatable Dimming Receptacle Assembly	5	150°C
	2213627-3	Rotatable Dimming Receptacle Assembly	5	105°C
	2213627-2	Rotatable Dimming Receptacle Assembly	7	150°C
	2213627-4	Rotatable Dimming Receptacle Assembly		105°C
0	2213626-1	Sealing Gasket	-	-

"TE CONNECTIVITY'S ROTATABLE DIMMING RECEPTACLES HAVE BEEN ACCEPTED IN THE INDUSTRY AS A "TOOL-LESS" DESIGN REQUIRING ONLY A FLAT-BLADE SCREWDRIVER TO LOOSEN AND TIGHTEN FOR ROTATION." ALEX HUNT III – AMERICAS PRODUCT MANAGER



ANSI C136.41 TOOL-LESS ROTATABLE DIMMING RECEPTACLE ASSEMBLY

LUMAWISE Endurance N tool-less rotatable dimming receptacle assembly is ANSI C136.41 compliant and hand rotatable up to 355° degrees for outdoor luminaires that require a NEMA based socket. Roadway and street and area lighting applications require an interface between lighting controls and a light fixture that is easily assembled into the light, sealed from harsh outdoor elements and designed for ease of rotation.



THE ANSI C136.41 COMPLIANT ROTATABLE "TOOL-LESS" DIMMING RECEPTACLE ASSEMBLY IS ROTATAED IN THE FIELD BY HAND WITH A SIMPLE LIFT AND TWIST PROCESS.

FEATURES:

- Allows installers to optimize positioning of the photo control with 355° degree rotation at 15° increments
- Prevents wire tangling and/or stress inside the lighting fixture
- Hand assembly to the lighting fixture during manufacturing makes for ease of assembly without tools
- Simplifies rotation and reduces installation time required to position the photo control
- Provides IP55 rating to the luminaire when mated with Endurance N control bases
- Standard NEMA socket interface accepts a wide range of controls

- Street and Area Lighting
- Roadway Lighting
- Commercial Outdoor Lighting (i.e. parking lots, car dealerships)
- Photo Controls

ANSI C136.41 TOOL-LESS ROTATABLE DIMMING RECEPTACLE ASSEMBLY

ELECTRICAL:

Power Contacts: 15A Max, 480 VAC max
 Signal Contacts: 1.5A Max, 30 VDC

MECHANICAL:

- 12 lbs pull force to lift and rotate connector
- Conforms to dimensional requirements of ANSI C136.41-2013
- Offer a 5 and 7 position version
- 5 position: 3 power contacts + 2 dimming/signal contacts
- 7 position: 3 power contacts + 4 dimming/signal contacts
- Power contacts terminated to 14AWG stranded wire per UL1015 or UL3321
- Signal Contacts terminated to 18AWG stranded wire per UL1015 or UL3321

MATERIALS:

• Housings: PBT

• Spring Clip: Stainless steel

Contact

Terminals: Tin and select gold plated copper alloy

• Gasket: LSR Rubber

SPECIFICATIONS:

Product: 108-133114 Application: 114-133114

• UL773

• ANSI C13.41

Product Selection Information

	Part Number	Description	Postion	Wire
	2-2332966-1	Tool-less Rotatable Receptacle Assembly	5 -	150°
	2-2332966-3			105°
	2-2332966-2	Tool-less Rotatable Receptacle Assembly	7 -	150°
	2-2332966-4			105°
0	2332473-1	Sealing Gasket	-	-



NEMA/ANSI STREET LIGHT CONTROLS:

Ensure protection from harsh conditions

LUMAWISE Endurance N lighting control accessories include a NEMA/ANSI compliant base assembly in 76mm and 81mm diameter and cover providing an integrated solution that combines a power and signal interface between the lighting control and dimming receptacle. The assembly provides an IP66 rated control enclosure, helping to ensure protection from harsh conditions including rain, snow and salt spray.



THE BASE ASSEMBLY SOLUTION INCLUDES POWER TWIST LOCK TERMINALS, SPRING LEAF SIGNAL TERMINALS AND A SEPARATELY PACKAGED FOAM GASKET. WHEN COUPLED WITH THE 5-VA RATED COVER THE FULLY ASSEMBLED PHOTO CONTROL ACHIEVES AN IP66 SEAL RATING.

FFATURES:

- ANSI C136.10/C136.41 Compliant
- Achieve long term reliability using TE's proven power and signal interface
- Translucent covers allow transmission of daylight to the light sensing device
- Achieve protection against dust and heavy jet spray with an IP66 rated solution
- Meets the flammability rating with a UL 94 5-VA rated cover
- Incorporating a vent into the base assembly enables full life expectancy of the electronics inside the enclosure

- Lighting Controls
- Street and Area Lighting
- Roadway Lighting
- Commercial Outdoor Lighting (i.e. parking lots, car dealerships)

CONTROL BASE AND COVER

MECHANICAL

• Operating Temperature Range: -40°C to +105° C

• Offer 3, 5 and 7 position version

• 3 position: 3 power contacts• 5 position: 3 power contacts +

2 dimming/signal contacts

•7 position: 3 power contacts +

4 dimming/signal contacts

MATERIALS

• Contact Plating: Tin plated power contacts

Gold plated signal contacts

• Housing Color: Base (black)

Cover (clear and transparent)

• Housing Material: Base (UL 94 V-0)

Cover (Polycarbonate)

Specifications

Product: 108-32125 Application: 114-32159

Product Selection Information

76mm dia. Base and Cover

		Part Number	Description	Ро	sition
		1-2213871-3	76mm Base Assembly		3
		1-2213871-1	76mm Base Assembly		5
ses		2213730-1	76mm Base Assembly		7
Bases		1-2336396-1	76mm Base Assembly w/Vent		5
		2336396-1	76mm Base Assembly w/Vent		7
		2325661-1	76mm Shorting Base Assembly		7
		1-2325661-1	76mm Shorting Base Assembly w/ Vent	7	
		Part Number	Description	Height	Color
		2306128-1	Cover, Light Controller	50mm	Transparent Smoke Gray
		1-2306128-1	Cover, Light Controller	50mm	Clear
		1-2306128-1 2311664-1	Cover, Light Controller Cover, Light Controller	50mm 75mm	Clear Transparent Smoke Gray
S					Transparent
covers		2311664-1	Cover, Light Controller	75mm	Transparent Smoke Gray
Covers		2311664-1 1-2311664-1	Cover, Light Controller Cover, Light Controller	75mm 75mm	Transparent Smoke Gray Clear Transparent
Covers		2311664-1 1-2311664-1 2-2311664-1	Cover, Light Controller Cover, Light Controller Cover, Light Controller w/Flat Surface	75mm 75mm 75mm	Transparent Smoke Gray Clear Transparent Smoke Gray Transparent
Covers		2311664-1 1-2311664-1 2-2311664-1 2213748-1	Cover, Light Controller Cover, Light Controller Cover, Light Controller w/Flat Surface Cover, Light Controller	75mm 75mm 75mm 98mm	Transparent Smoke Gray Clear Transparent Smoke Gray Transparent Smoke Gray

Additional cover colors also available, contact **Product and Customer Support**.



CONTROL BASE AND COVER

Product Selection Information

81mm dia. Base and Cover

		Part Number	Description	Position
		1-2213871-2	81mm Base Assembly	5
Bases	2	2213871-2	81mm Base Assembly	7
Bas		1-2336396-2	81mm Base Assembly w/Vent	5
		2336396-2	81mm Base Assembly w/Vent	7

		Part Number	Description	Height	Color
Covers		2315539-1	Cover, Light Controller	62mm	Transparent Smoke Gray
		1-2315539-1	Cover, Light Controller	62mm	Clear
		2338716-1	Cover, Light Controller	80mm	Transparent Smoke Gray
		1-2338716-1	Cover, Light Controller	80mm	Clear
		2306130-1	Cover, Light Controller	98mm	Transparent Smoke Gray
		1-2306130-1	Cover, Light Controller	98mm	Clear



1-2338716-1

LUMAWISE Endurance N Cover Clear - 80mm - Tall

1-2311664-1

LUMAWISE Endurance N Cover Clear - 75mm - Tall

1-2213871-2

LUMAWISE Endurance N Base 81mm diameter

1-2213871-1

LUMAWISE Endurance N Base 76mm diameter

Additional cover colors also available, contact **Product and Customer Support**.

C136.10 SHORTING AND OPEN CAPS

Offers an IP66 rating for outdoor harsh environments. LUMAWISE Endurance N caps are used to disconnect service (Open Cap) or to provide continual power from the pole to the luminaire (Shorting Cap). A shorting cap with an integrated Metal Oxide Varistor (MOV) provides surge protection for LED luminaires that are required to be on continuously.



PROVIDES A SAFE, CONVENIENT AND ECONOMICAL METHOD TO CLOSE OR OPEN THE PRIMARY CIRCUIT PATH ACROSS A NEMA COMPLIANT RECEPTACLE ON AN OUTDOOR LIGHT. THE LUMAWISE ENDURANCE N CAPS ARE ANSI C136.10 COMPLIANT AND UL LISTED.

FEATURES:

- Provides IP66 water ingress protection reducing outdoor light fixture maintenance and extending operating life
- Shorting cap with MOV protects the luminaire from transient line voltages
- An alternative to light sensing control units
- Distinct cap shape improves visual distinction between standard photo controls and shorting caps
- IK08 high impact resistant

- Street and Area Lighting
- Roadway Lighting
- Commercial Outdoor Lighting
 (i.e. parking lots, car dealerships)



C136.10 SHORTING AND OPEN CAPS

ELECTRICAL

• Current rating: 15 A max

• Voltage rating: 0 - 480 VAC

MECHANICAL

 Operating Temperature Rating: -40°to 120°C

MATERIALS

• UV stabilized material

SPECIFICATIONS

• Product: 108-133113

• Instruction Sheet: 408-133113

ANSI C136.10

• UL773

• IEC 61984:200 8

• IEC 60529

• IEC 62262



2328118-1

CERTIFICATES

• C-UL listed: E66375

• UL-EN certified: US-32907-UL



2328118-2

PRODUCT INFORMATION

Description	Part Number
Shorting Cap Assembly	2328118-1
Shorting Cap Assembly w/Surge Protection	2328118-2
Open Cap Assembly	2328118-3



2328118-3

NEMA BASE AC/DC POWER MANAGEMENT:

Jump start street lighting control projects

LUMAWISE Endurance N enhanced base is a lighting control base assembly which provides AC power switching and DC power supplies necessary for complex control node solutions, creating a platform for rapid development and manufacture of NEMA/ANSI street and outdoor lighting control solutions.



LUMAWISE ENDURANCE N ENHANCED BASE
CREATES A PLATFORM FOR RAPID DEVELOPMENT
AND MANUFACTURE OF NEMA/ANSI STREET
AND OUTDOOR LIGHTING CONTROL SOLUTIONS.
THE ENHANCED BASE TAKES OUR LIGHTING
CONTROL BASE ASSEMBLY TO THE NEXT
LEVEL OF PERFORMANCE BY PROVIDING AC
POWER SWITCHING AND DC POWER SUPPLIES
NECESSARY FOR COMPLEX CONTROL NODE
SOLUTIONS, ALLOWING DESIGNERS MORE TIME
TO FOCUS ON VALUE-ADDING FEATURES.

FEATURES:

- Street lighting enhanced base
- Enable cost-effective design re-use through organized DC power and signalling interfaces
- De-risk project schedules and cost of design changes
- Reduce supply chain expenses with new project opportunities, lower certification and engineering
- Improve manufacturability and further innovation focus

APPLICATIONS

- Street and roadway lighting control
- Commercial & campus outdoor lighting management
- · Smart Cities control networks
- Smart Grid to Smart Cities bridging

3

DC output voltages

ANSI

ANSI C136.41 compliance

UL

UL773 compliant



ENHANCED BASE

The enhanced base presents organized DC power and signaling interfaces to the designer and incorporates a mechanical architecture which supports design reuse and modularity across lighting control products. Using the enhanced base as a product platform de-risks project schedules and cost of design changes, reduces opportunity cost by enabling more value-adding innovation using the same time & designers, and streamlines supply chains, all to drive benefit of the bottom line.

SPECIFICATIONS

Application: 114-133085Product: 108-133085

MATERIALS:

• Housing: PBT

Dimming Contacts: Copper alloy gold plated
 Power Contacts: Copper alloy tin plated
 Gasket: Vinyl-nitrile foam
 O-Ring: Silicone rubber

RoHS compliant

ENVIRONMENTAL:

• Operating temperature: -40°C to +85°C

• Relative humidity:

- Operating: 15% to 96%

Non-condensing environment

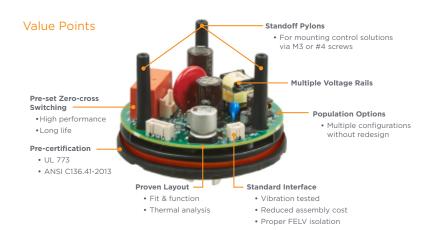
Altitude

- Operating: -15M to + 2,000M - Non-Operating: -15M to + 14,000M

Electrical

Parameter	Value/Note	
Input Voltage Range	90-300 VAC for 110/120, 230/240 and 277 VAC nominal sources	
Input Frequency	47-63 Hz for 50/60 Hz nominal sources	
Maximum AC current	rimum AC current 5A based upon the relay ratings	
	DC Power Supplies	
Dimming	24 VDC at 50 mA maximum	
Communications	5 VDC at 1000 mA maximum	
Auxiliary	3.3 VDC at 500 mA maximum	
Surge Protection	ANSI C62.41 6 kV, 3 kA combination wave surge protection	
Power Consumption	<1W @ 120VAC, < 2W @ 277 VAC	
Fail Mode*	On or Off	

^{*}value depends on part number



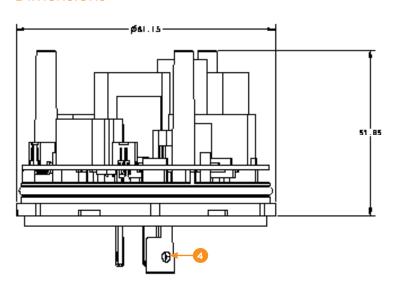


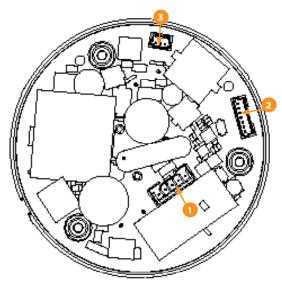
ENHANCED BASE

Product Selection Information

Part Number	Description	Frequency (Hz)	Fail Mode
2314786-1	LUMAWISE Endurance N Enhanced Base 60		ON
2314786-2	LUMAWISE Endurance N Enhanced Base 60		OFF
1-2314786-1	LUMAWISE Endurance N Enhanced Base 50		ON
1-2314786-2	LUMAWISE Endurance N Enhanced Base	50	OFF

Dimensions





Compatible Products

Item	Enhanced Base Interface	Description	Part Number
1	Energy Metering Connection	EMC Cable Assembly	2318044-1
2	Luminaire Control Connection	LCC Cable Assembly, 7 position	2318043-1
3	Management Power Connection	MPC Cable Assembly, 3 position	2318043-2
4	ANSI C136.41-2013 Interface	LUMAWISE Dimming Receptacle	2213362
			2213627



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