

# ROUND SERIES

LED LIGHTING FOR HARSH AND  
HAZARDOUS AREAS HIGHBAY



**Reliable. Durable. Efficient.**  
**12,000 to 30,000 lumen models**

**RED SKY**  
SERIOUSLY SAFE LIGHTS™

## ABOUT RED SKY LIGHTING

# PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS

- A leading manufacturer of premium LED lights for demanding work conditions
- Headquartered in California, products assembled in the USA
- Servicing global clients across 4 continents in metal processing, oil & gas, marine, manufacturing
- Renowned for quality, dependability, client care and uncompromising safety standards



## WHY CHOOSE RED SKY

### 🔥 SERIOUSLY SAFE LIGHTS

- Rigorously tested in our professional labs
- Surpassing industry certifications and safety protocols
- Crafted with highest grade components for maximum durability

### 🔥 TOP-NOTCH SERVICES

- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

### 🔥 FAST DELIVERY

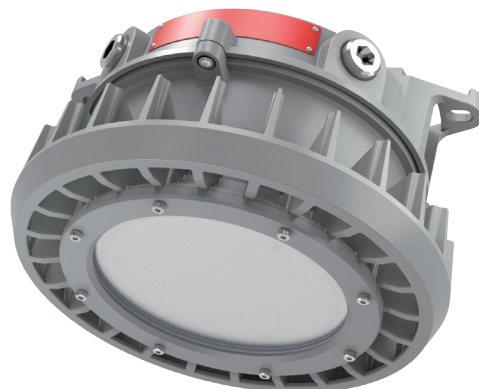
- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

### 🔥 SUSTAINABLE SOLUTIONS

- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



# ROUND SERIES

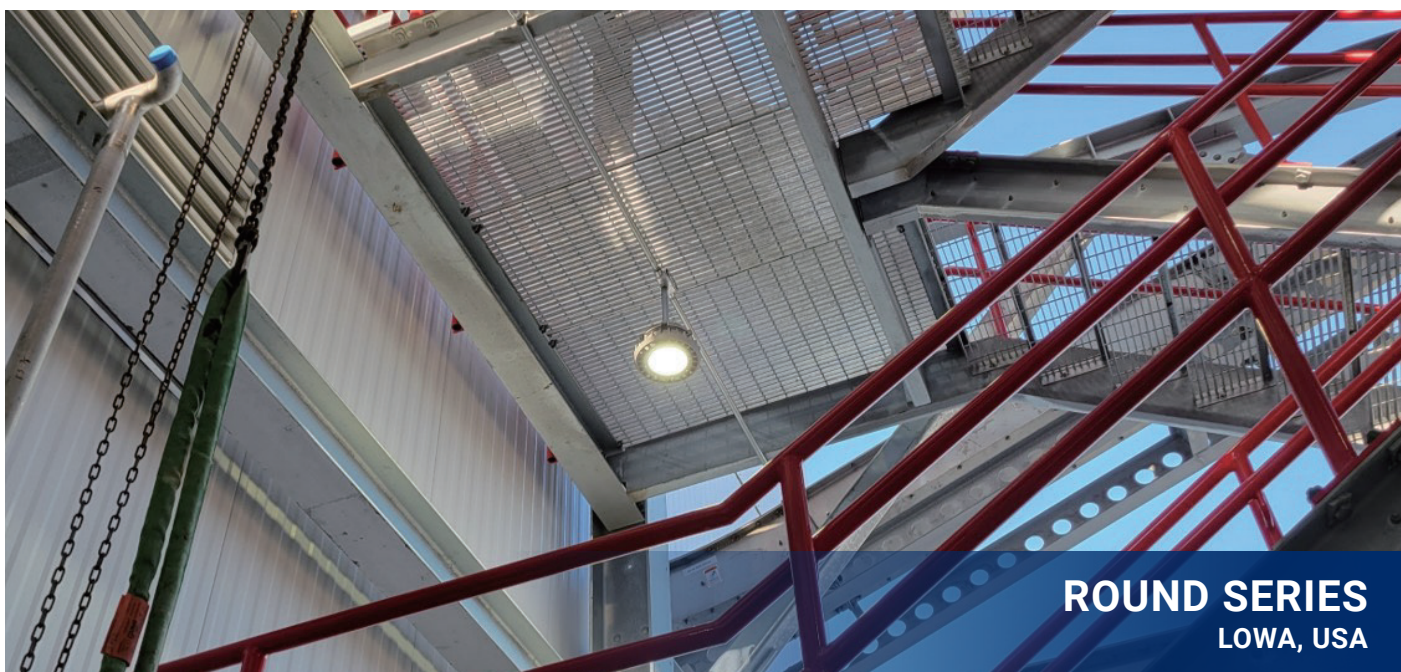


The compact yet robust Round Series lights up even the tightest spaces. Measuring only 9 inches, it delivers a powerful 150 lumens per watt from high-efficiency LEDs. Approved for hazardous locations, the Round Series accommodates demanding conditions in industries like oil and gas, marine, factories and more.

Built to last, it withstands searing heat up to 140°F (60°C) and has a lifetime of over 127,000 hours at this temperature, while its robust design and quality enable operation under temperatures as low as -40°F (-40°C). Its 1-10V dimmability reduces light pollution and slashes energy costs. For optimized coverage, choose from three lens options and seven mount configurations for flexible placement. Pre-installed cords make installation easy with a wide range of cord length options that offer great flexibility. A versatile mount fits multiple 3/4" NPT hubs for compatibility in different scenarios.

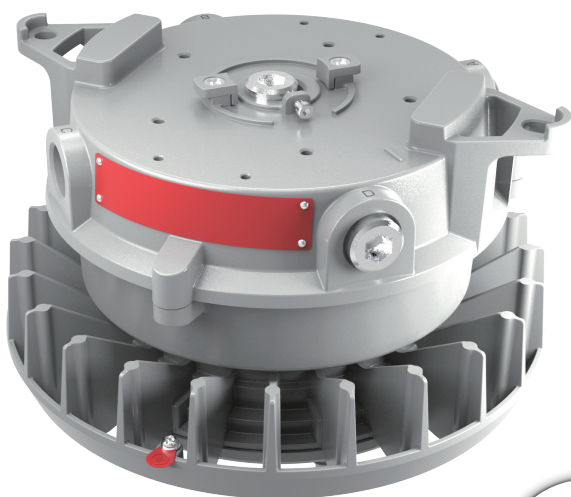
Backed by Red Sky Lighting's best-in-class 10-year warranty, it exceeds expectations through long shifts in punishing conditions. Experience powerful, precise lighting where you need it most with the compact yet mighty Round Series.





**ROUND SERIES**  
LOWA, USA

## **FEATURES**

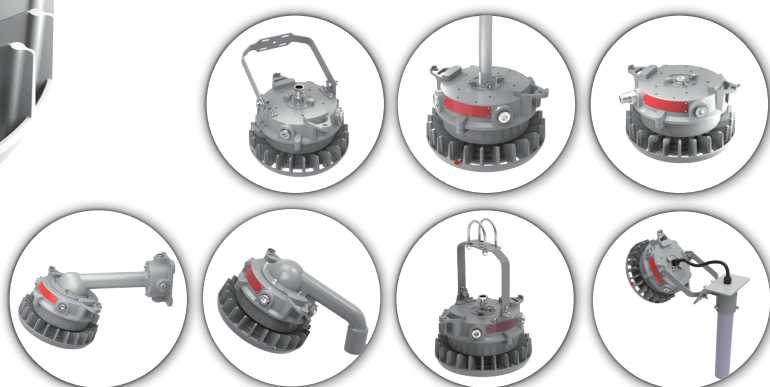


**Quick Installation**  
60 seconds installation time



**Compact and Light Weight Design**

**Flexible Installation**  
7 different mounting options



## **RATINGS**

|                                       |                               |
|---------------------------------------|-------------------------------|
| Class I Division 2, Groups A, B, C, D | Simultaneous Presence         |
| Class II Division 1 Group E, F, G     | UL 1598 Wet Locations         |
| Class II Division 2, Groups F, G      | UL 1598A Marine Outside Type  |
| Class III                             | (Salt Water)                  |
| Class I, Zone 2, Group IIC            | IP66                          |
| Zone 21, Group IIIC                   | IK08                          |
|                                       | Salt Spray 720 hrs (ISO 9227) |

## **CERTIFICATIONS**

UL844  
UL1598  
UL1598A  
CSA C22.2 NO. 250.0  
CSA C22.2 No. 137  
DLC (Pending)  
FCC Part 15, Subpart B



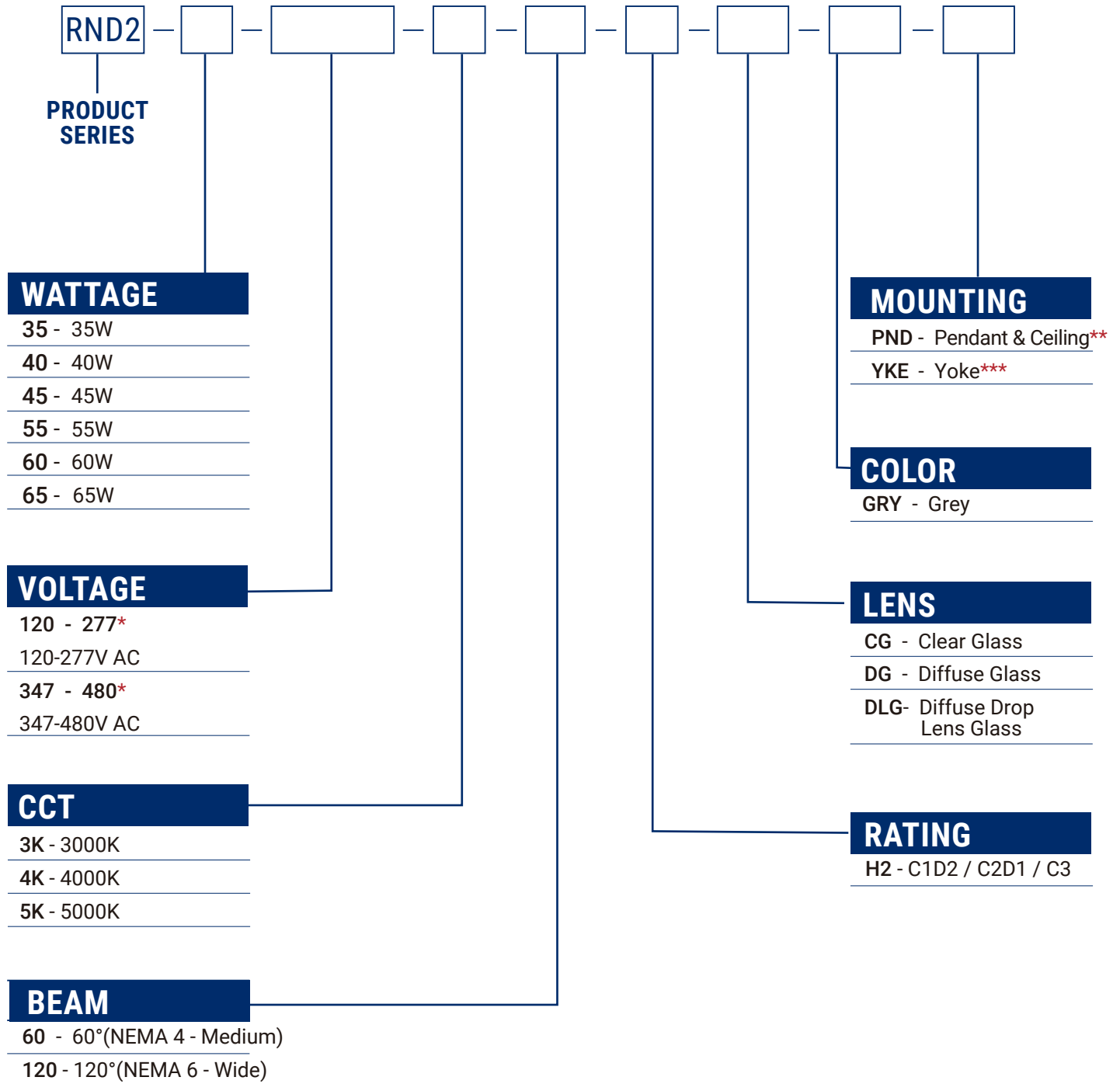
# TECHNICAL PARAMETERS

| Specification                      | RND2-35                                       | RND2-40 | RND2-45 | RND2-55 | RND2-60               | RND2-65              |
|------------------------------------|-----------------------------------------------|---------|---------|---------|-----------------------|----------------------|
| Electrical Parameters              |                                               |         |         |         |                       |                      |
| Power                              | 35W                                           | 40W     | 45W     | 55W     | 60W                   | 65W                  |
| Rated Input Current(120V AC)       | 0.324A                                        | /       | 0.416A  | 0.509A  | /                     | 0.601A               |
| Rated Input Current(277V AC)       | 0.140A                                        | /       | 0.180A  | 0.220A  | /                     | 0.260A               |
| Rated Input Current(347V AC)       | /                                             | 0.128A  | /       | /       | 0.192A                | /                    |
| Rated Input Current(480V AC)       | /                                             | 0.092A  | /       | /       | 0.138A                | /                    |
| Voltage(V AC)                      | 120-277                                       | 347-480 | 120-277 | 120-277 | 347-480               | 120-277              |
| Frequency                          | 50/60Hz                                       |         |         |         |                       |                      |
| Power Factor                       | ≥0.90                                         |         |         |         |                       |                      |
| THD                                | <20%                                          |         |         |         |                       |                      |
| L70                                | 127,000 hrs@140°F                             |         |         |         |                       |                      |
| Dimming                            | 0-10V, Range 10-100%                          |         |         |         | /                     | 0-10V, Range 10-100% |
| Surge Protection                   | 6KV                                           |         |         | 10KV    | L\N-FG 4KV<br>L-N 2KV | 10KV                 |
| Supply Wire                        | 12-18AWG , Rated 90°C                         |         |         |         |                       |                      |
| Warranty                           | LEDs: 10 years, Driver: 7 years               |         |         |         |                       |                      |
| Optical Parameters                 |                                               |         |         |         |                       |                      |
| Lumen Output*                      | 5,283Lm                                       | 6,439Lm | 7,307Lm | 8,240Lm | 8,774Lm               | 9,524Lm              |
| Lumen Efficacy*                    | 150Lm/W                                       |         |         |         |                       |                      |
| Available Beam Angle               | 60° / 120°                                    |         |         |         |                       |                      |
| Correlated Color Temperature (CCT) | 3000K/4000K/5000K                             |         |         |         |                       |                      |
| Color Rendering Index (CRI)        | Ra>70                                         |         |         |         |                       |                      |
| Mechanical Parameters              |                                               |         |         |         |                       |                      |
| Housing Material                   | Die-cast aluminum                             |         |         |         |                       |                      |
| Hardware                           | Stainless steel 316                           |         |         |         |                       |                      |
| Lens Material                      | Tempered Glass                                |         |         |         |                       |                      |
| Mounting Options                   | Pendant, Ceiling, Yoke, Wall, Stanchion, Pole |         |         |         |                       |                      |
| Product Weight                     | 11.0lbs / 5.0kg                               |         |         |         |                       |                      |
| Package Weight                     | 13.1lbs / 6.0kg                               |         |         |         |                       |                      |
| Cable Entry                        | (5) 3/4" NPT                                  |         |         |         |                       |                      |
| Product Dimensions(L×W×H)          | 10.6×10.3×7.6in (269.4×262×191.7mm)           |         |         |         |                       |                      |
| Package Dimensions(L×W×H)          | 12.7×11.6×8.7in (323×295×220mm)               |         |         |         |                       |                      |
| Environmental Parameters           |                                               |         |         |         |                       |                      |
| Ambient Operating Temperature      | -40°F ~ +140°F (-40°C ~ 60°C)                 |         |         |         |                       |                      |
| T-Code Rating                      | C1D2 – T4A, C2D1 – T5                         |         |         |         |                       |                      |
| EPA wind rating (FT2)              | 0.929(Yoke), 1.032(Ceiling), 0.917(Stanchion) |         |         |         |                       |                      |

\* Value calculated based on 5000K and Clear glass ,varies to different spec.

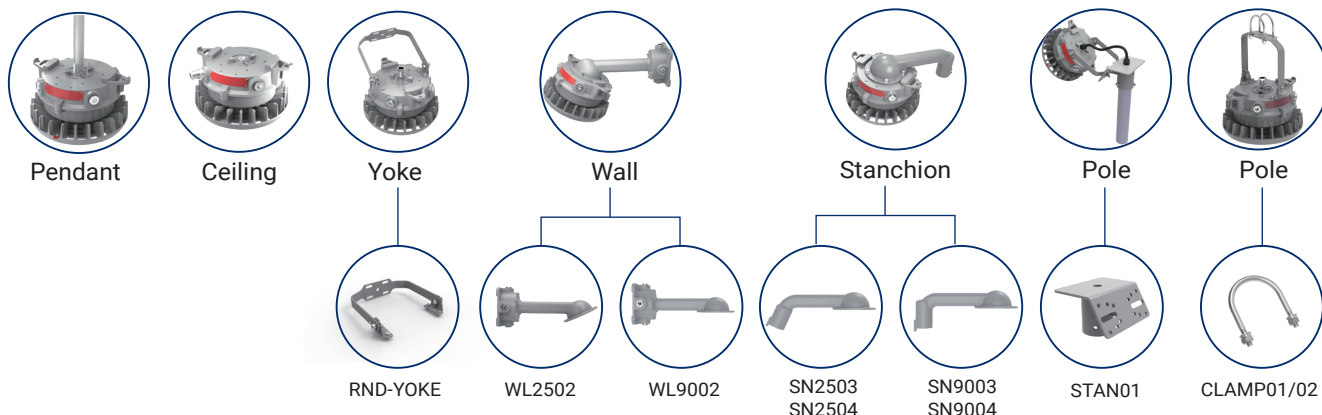
# ORDERING INFORMATION

**EXAMPLE:** RND2-65-120-277-5K-120-H2-CG-GRY-PND





## MOUNTING ACCESSORIES



| Mounting Method | PN       | Description                                                                                               | MPN Code  |
|-----------------|----------|-----------------------------------------------------------------------------------------------------------|-----------|
| Yoke            | RND-YOKE | YOKE Mount, RND SERIES, SS304,Power Coated Grey RAL7037                                                   | 309050029 |
| Wall            | WL2502   | WALL MOUNT 25 Degree, Power Coated Grey RAL7037                                                           | 309050317 |
|                 | WL9002   | WALL MOUNT 90 Degree, Power Coated Grey RAL7037                                                           | 309050316 |
| Stanchion       | SN2503   | Stanchion Mount 25 Degree, NPT1-1/4, Power Coated Grey RAL7037                                            | 309050318 |
|                 | SN2504   | Stanchion Mount 25 Degree, NPT1-1/2, Power Coated Grey RAL7037                                            | 309050319 |
|                 | SN9003   | Stanchion Mount 90 Degree, NPT1-1/4, Power Coated Grey RAL7037                                            | 309050320 |
|                 | SN9004   | Stanchion Mount 90 Degree, NPT1-1/2, Power Coated Grey RAL7037                                            | 309050321 |
| Pole            | STAN01*  | Slip-Fit Stanchion Mount Kit for $\Phi 2"$ (2 3/8" OD) Poles Non-threaded, SUS304, powder coated, RAL7037 | 309050300 |
|                 | CLAMP01  | Pipe Clamp Kit for Round pole $\Phi 1\ 7/8$ (48mm), SS304                                                 | 309050047 |
|                 | CLAMP02  | Pipe Clamp Kit for Round pole $\Phi 2\ 3/8$ (60mm), SS304                                                 | 309050046 |

\* Requires A Yoke Mount

## OTHER ACCESSORIES



| PN         | Description                                                                             | MPN Code  |
|------------|-----------------------------------------------------------------------------------------|-----------|
| SFCB02     | Safety Cable Kit, RND &BLM&LNT&LNT EM SERIES, SS304                                     | 309050058 |
| RND-WG     | Wire guard, RND SERIES, SS304                                                           | 310010109 |
| RND-WGG    | Wire guard for Globe lens, RND SERIES, SS304                                            | 309050322 |
| RND-VISO25 | VISOR 25°, RND SERIES, Aluminium alloy, Power Coated Grey RAL7037                       | 101050009 |
| RND-VISO90 | VISOR 90°, RND SERIES, Aluminium alloy, Power Coated Grey RAL7037                       | 101050008 |
| HOOK02     | M10 Hook with 3/4" NPT(SUS316)                                                          | 309050331 |
| GLCO-03    | 3ft Cord (SOOW 14AWG*3, 105°C, 600V) with cable gland, for C1D2 and non-hazardous only  | 204020003 |
| GLCO-10    | 10ft Cord (SOOW 14AWG*3, 105°C, 600V) with cable gland, for C1D2 and non-hazardous only | 204020004 |

## **REPLACEMENT PARTS (ORDERED SEPARATELY)**

| Part Number            | Description                                          | MPN Code  |
|------------------------|------------------------------------------------------|-----------|
| RND2-35-120-277-Driver | Replacement Driver Kit for RND2-35-120-277 Fixtures  | 303010028 |
| RND2-45-120-277-Driver | Replacement Driver Kit for RND2-45-120-277 Fixtures  | 303010029 |
| RND2-55-120-277-Driver | Replacement Driver Kit for RND2-55-120-277 Fixtures  | 303010030 |
| RND2-65-120-277-Driver | Replacement Driver Kit for RND2-65-120-277 Fixtures  | 303010031 |
| RND2-40-347-480-Driver | Replacement Driver Kit for RND2-40-347-480V Fixtures | 303010032 |
| RND2-60-347-480-Driver | Replacement Driver Kit for RND2-60-347-480V Fixtures | 303010033 |
| RND2-CG                | Replacement Clear Glass Lens for RND2 Fixtures       | 303030004 |
| RND2-DG                | Replacement Diffuse Glass Lens for RND2 Fixtures     | 303030005 |
| RND2-DLG               | Replacement Drop Glass Lens for RND2 Fixtures        | 303030006 |

## **LUMEN TABLE**

| PN                                    | Wattage (W) | CCT   | Beam | Lens            | Lumen Output (Lm) | Efficiency (Lm/W) |
|---------------------------------------|-------------|-------|------|-----------------|-------------------|-------------------|
| <b>Voltage 120-277V AC</b>            |             |       |      |                 |                   |                   |
| RND2-35-120-277-5K-120-H2-CG-GRY-YKE  | 35          | 5000K | 120° | Clear Glass     | 5,283             | 152               |
| RND2-35-120-277-5K-120-H2-DG-GRY-YKE  | 35          | 5000K | 120° | Diffuse Glass   | 4,740             | 137               |
| RND2-35-120-277-5K-120-H2-DLG-GRY-YKE | 35          | 5000K | 120° | Drop Lens Glass | 4,346             | 125               |
| RND2-45-120-277-5K-120-H2-CG-GRY-YKE  | 45          | 5000K | 120° | Clear Glass     | 7,307             | 152               |
| RND2-45-120-277-5K-120-H2-DG-GRY-YKE  | 45          | 5000K | 120° | Diffuse Glass   | 6,541             | 136               |
| RND2-45-120-277-5K-120-H2-DLG-GRY-YKE | 45          | 5000K | 120° | Drop Lens Glass | 6,009             | 125               |
| RND2-55-120-277-5K-120-H2-CG-GRY-YKE  | 55          | 5000K | 120° | Clear Glass     | 8,240             | 149               |
| RND2-55-120-277-5K-120-H2-DG-GRY-YKE  | 55          | 5000K | 120° | Diffuse Glass   | 7,417             | 134               |
| RND2-55-120-277-5K-120-H2-DLG-GRY-YKE | 55          | 5000K | 120° | Drop Lens Glass | 6,816             | 123               |
| RND2-55-60-277-5K-60-H2-CG-GRY-YKE    | 55          | 5000K | 60°  | Clear Glass     | 6,291             | 156               |
| RND2-65-120-277-5K-120-H2-CG-GRY-YKE  | 65          | 5000K | 120° | Clear Glass     | 9,524             | 150               |
| RND2-65-120-277-5K-120-H2-DG-GRY-YKE  | 65          | 5000K | 120° | Diffuse Glass   | 8,543             | 134               |
| RND2-65-120-277-5K-120-H2-DLG-GRY-YKE | 65          | 5000K | 120° | Drop Lens Glass | 7,842             | 123               |
| RND2-65-60-277-5K-60-H2-CG-GRY-YKE    | 65          | 5000K | 60°  | Clear Glass     | 9,867             | 155               |
| <b>Voltage 347-480V AC</b>            |             |       |      |                 |                   |                   |
| RND2-40-347-480-5K-120-H2-CG-GRY-YKE  | 40          | 5000K | 120° | Clear Glass     | 6,439             | 149               |
| RND2-40-347-480-5K-120-H2-DG-GRY-YKE  | 40          | 5000K | 120° | Diffuse Glass   | 5,771             | 133               |
| RND2-40-347-480-5K-120-H2-DLG-GRY-YKE | 40          | 5000K | 120° | Drop Lens Glass | 5,303             | 123               |
| RND2-40-60-277-5K-60-H2-CG-GRY-YKE    | 40          | 5000K | 60°  | Clear Glass     | 6,707             | 155               |
| RND2-60-347-480-5K-120-H2-CG-GRY-YKE  | 60          | 5000K | 120° | Clear Glass     | 8,774             | 154               |
| RND2-60-347-480-5K-120-H2-DG-GRY-YKE  | 60          | 5000K | 120° | Diffuse Glass   | 7,897             | 138               |
| RND2-60-347-480-5K-120-H2-DLG-GRY-YKE | 60          | 5000K | 120° | Drop Lens Glass | 7,237             | 127               |
| RND2-60-60-277-5K-60-H2-CG-GRY-YKE    | 60          | 5000K | 60°  | Clear Glass     | 9,168             | 160               |

For additional information, please contact your sales representative.



## A DIRECT RETROFIT FROM HID TO LED

The RND series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 65-watt Round (RND2-65) delivers virtually the same illumination as its equivalent 200 watt Metal Halide luminaire while providing 80% reduction in energy costs and up to 148,000 hours of continuous operation.

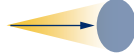
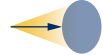
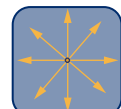
| MODELS  | Lumen Output (Lm) | MH Equivalent (W) | HPS Equivalent (W) |
|---------|-------------------|-------------------|--------------------|
| RND2-35 | 5,283             | 150               | 150                |
| RND2-45 | 7,307             | 175               | 225                |
| RND2-55 | 8,240             | 200               | 225                |
| RND2-65 | 9,524             | 200               | 250                |

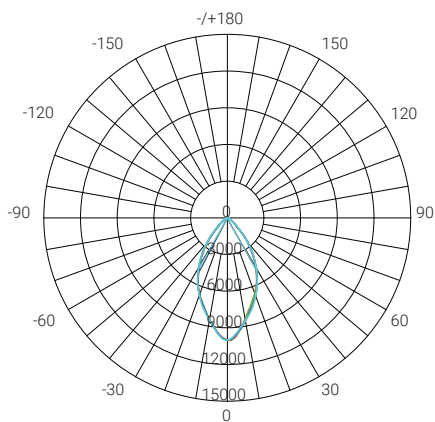
## THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

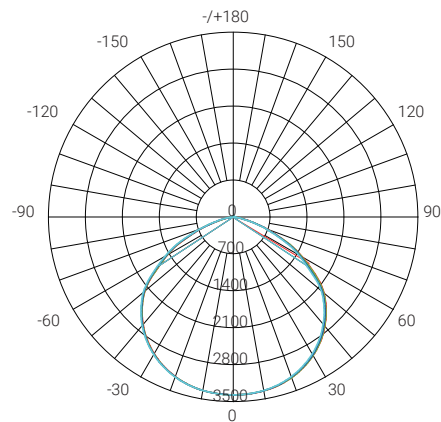
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize energy savings—all within budget.

Simply fill out the form ( <https://dev.redskylighting.com/lighting-design> ) with a few key details, request a layout, and we'll bring your ideas to life within 2-5 business days.

| Beam | NEMA/IESNA Type           | Beam Description                                                                                                                | Beam Projection Distance                                                              |
|------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 30°  | NEMA 3                    | Medium Narrow                                                                                                                   |  |
| 60°  | NEMA 4                    | Medium                                                                                                                          |  |
| 90°  | NEMA 5                    | Medium Wide                                                                                                                     |  |
| 120° | NEMA 6                    | Wide                                                                                                                            |  |
| T1   | Type I                    | Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels. |  |
| T2   | Type II                   | Asymmetric distributions, well suited for narrow areas, such as roadways, paths and driveways.                                  |  |
| T3   | Type III                  | Asymmetric distributions, well suited for site / area perimeters, wide roadways, and open areas.                                |  |
| T5   | NEMA 7<br>Type V (Square) | Very Wide: symmetrical pattern with excellent uniformity for large, open areas.                                                 |  |



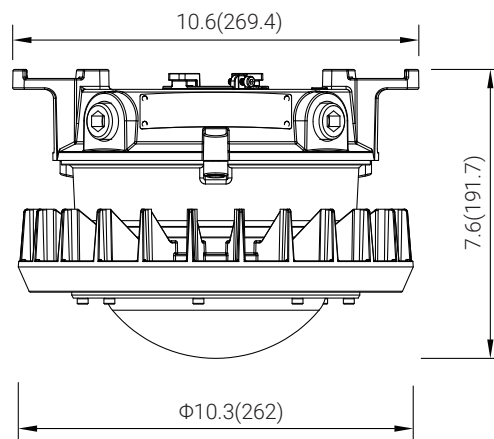
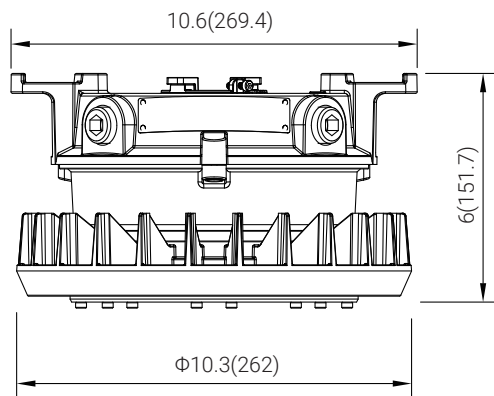
**60°**  
**NEMA 4 - Medium**



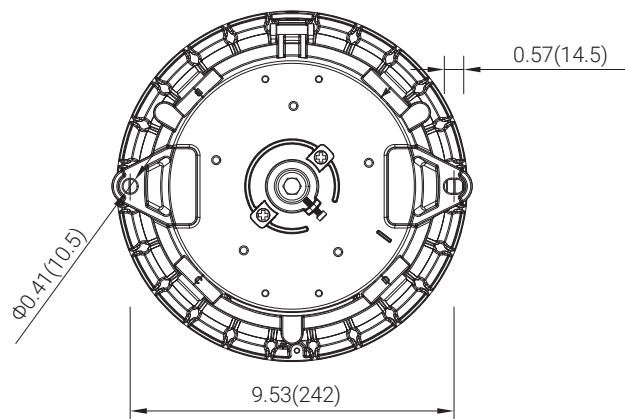
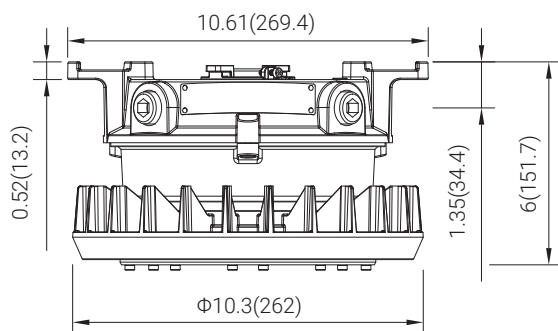
**120°**  
**NEMA 6 - Wide**

## DIMENSIONS

unit: in(mm)

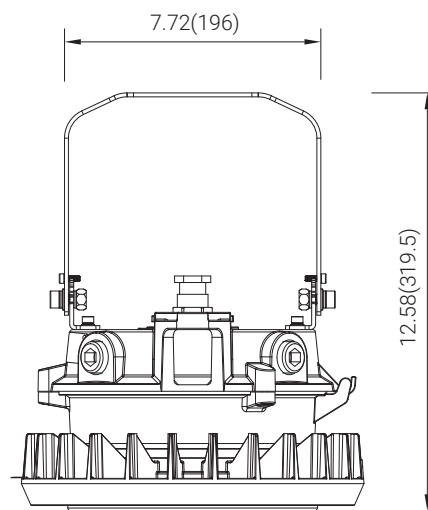
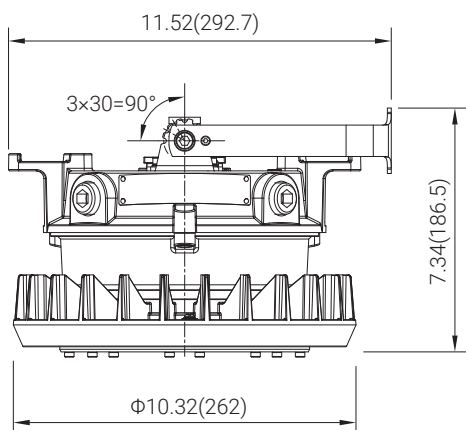
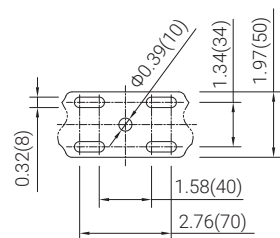


**Pendant**

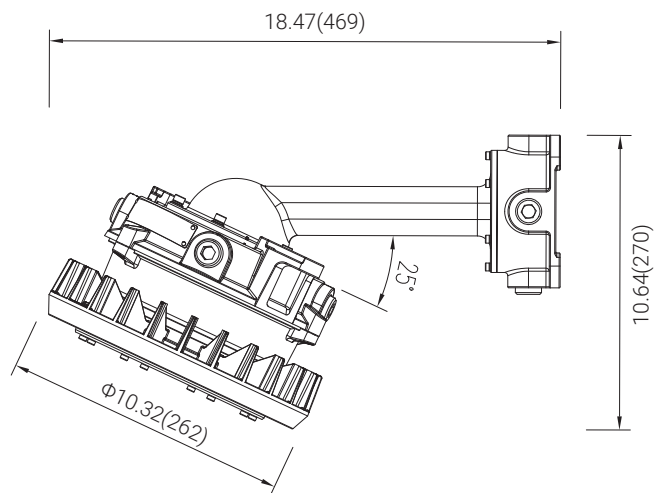
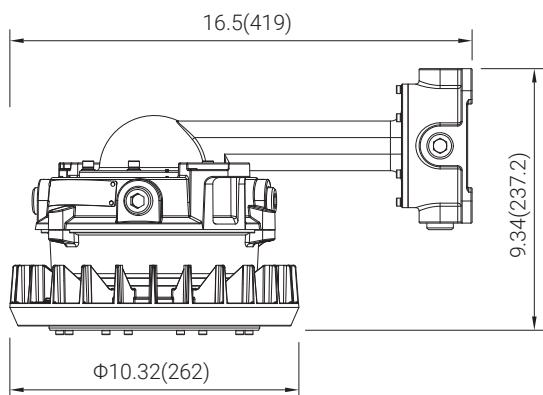
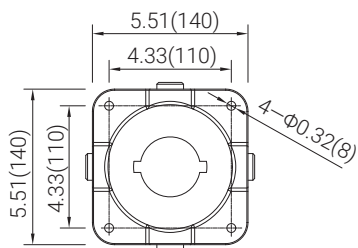


**Ceiling**

unit: in(mm)



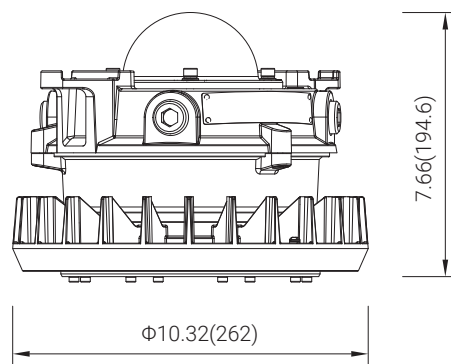
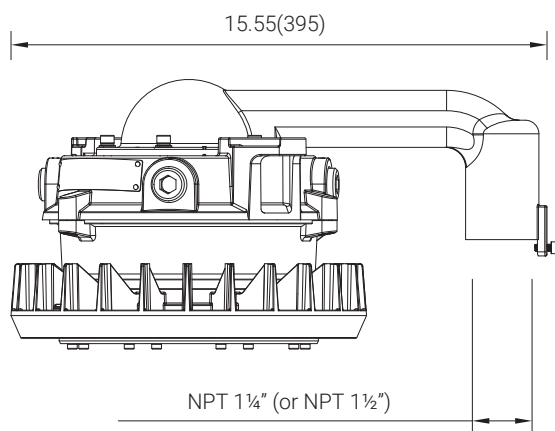
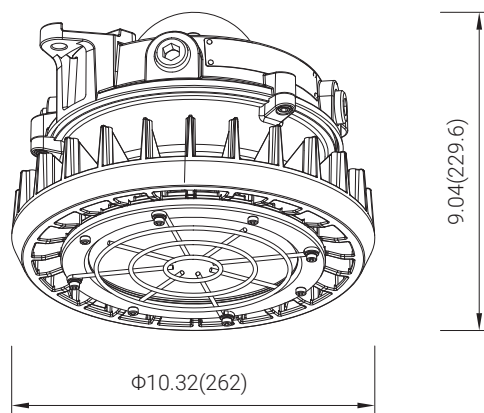
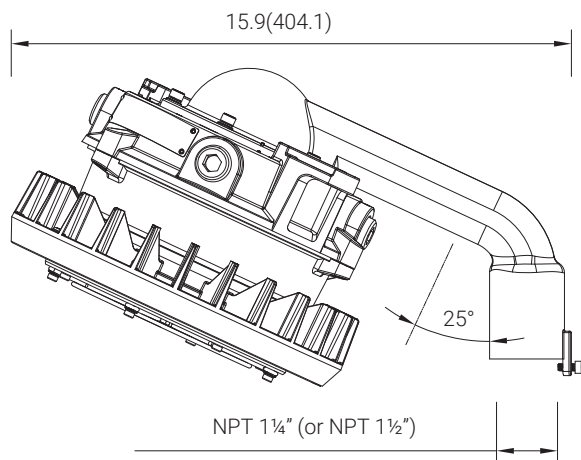
Yoke



Wall

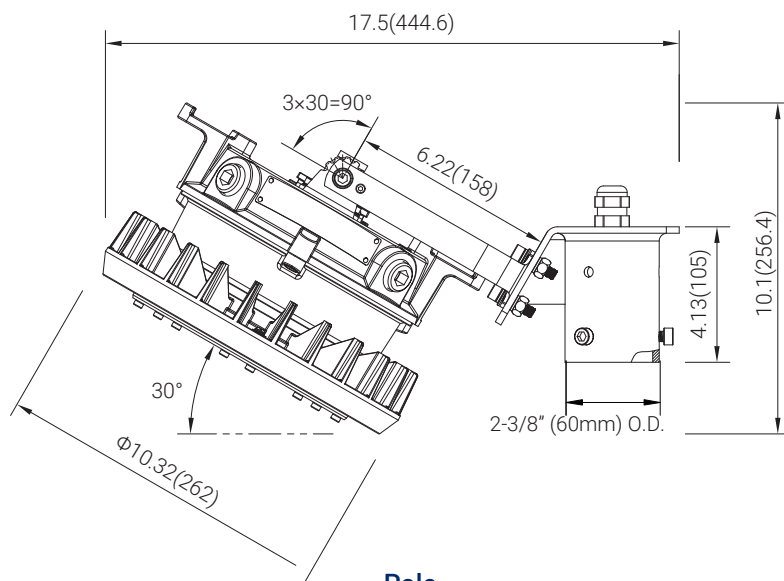


unit: in(mm)

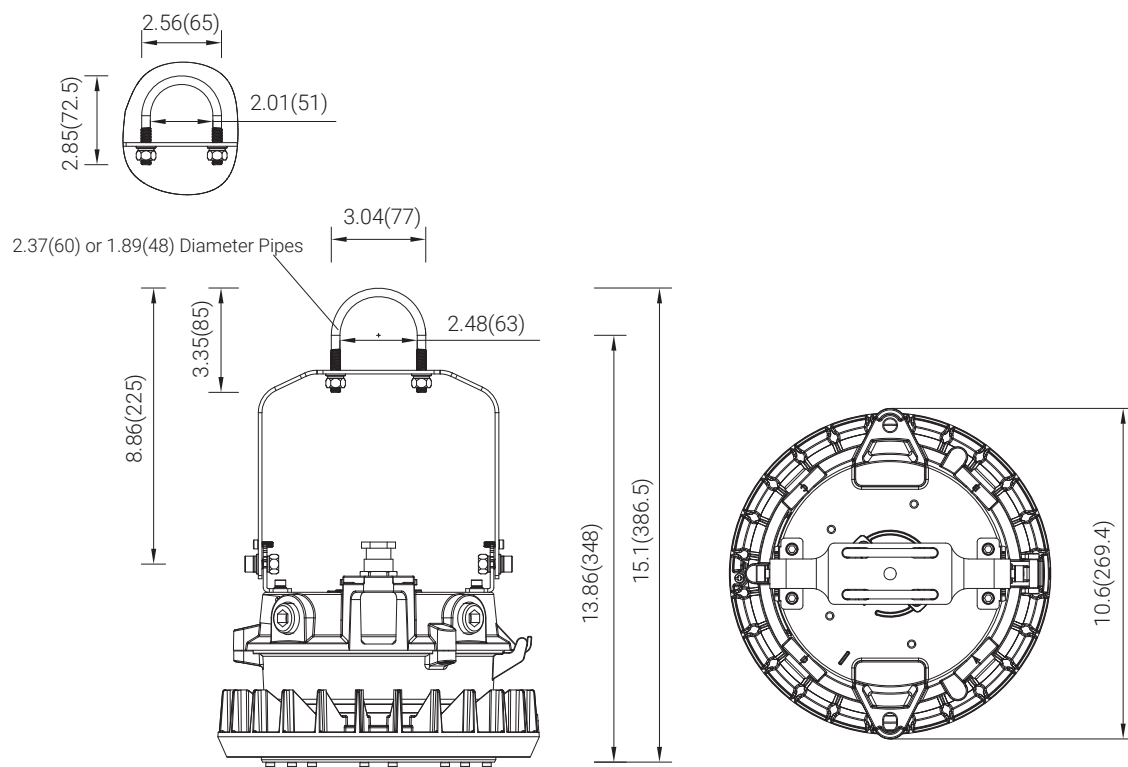


## Stanchion

unit: in(mm)



**Pole**  
**STAN01**



**Pole**  
**CLAMP01/02**

# HAZARDOUS LOCATION LIGHTING BASICS

## Atmosphere Groups

| Substance                                                                          | Hazard Class                     | Division Groups      | Zone Groups       |
|------------------------------------------------------------------------------------|----------------------------------|----------------------|-------------------|
| Acetylene                                                                          | Class I<br>Flammable<br>Gases    | Group A              | IIC               |
| Hydrogen                                                                           |                                  | Group B              | IIC               |
| Ethylene                                                                           |                                  | Group C              | IIB               |
| Propane                                                                            |                                  | Group D              | IIA               |
| Methane                                                                            |                                  | Group D              | IIA <sup>2</sup>  |
| Combustible Metal Dusts                                                            | Class II<br>Combustible<br>Dusts | Group E <sup>1</sup> | IIIC <sup>3</sup> |
| Combustible Carbonaceous Dust                                                      |                                  | Group F              | IIIB <sup>3</sup> |
| Combustible Dusts not in Group E or F<br>(Flour, Grain, Wood, Plastics, Chemicals) |                                  | Group G              | IIIB <sup>3</sup> |
| Combustible Fibers and Flyings                                                     | Class III Fibers<br>and Flyings  | Not Applicable       | IIIA <sup>3</sup> |

Note 1: Group E is applicable to Class II, Division 1 only.  
 Note 2: Methane is a Group IIA Gas for non-mining applications.  
 Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

## Temperature Classification

| Max. Surface Temperatures | NEC® 500 CEC® | NEC® 500/IEC-Group II |
|---------------------------|---------------|-----------------------|
| 450°C(842°F)              | T1            | T1                    |
| 300°C(572°F)              | T2            |                       |
| 280°C(536°F)              | T2A           | T2                    |
| 260°C(500°F)              | T2B           |                       |
| 230°C(446°F)              | T2C           |                       |
| 215°C(419°F)              | T2D           |                       |
| 200°C(392°F)              | T3            | T3                    |
| 180°C(256°F)              | T3A           |                       |
| 165°C(329°F)              | T3B           |                       |
| 160°C(320°F)              | T3C           |                       |
| 135°C(275°F)              | T4            | T4                    |
| 120°C(248°F)              | T4A           |                       |
| 100°C(212°F)              | T5            | T5                    |
| 85°C(185°F)               | T6            | T6                    |

## Classification of Divisions and Zones

| Hazard Level                     | Division Scheme | Zone Scheme      | Definitions                                                                                                          |
|----------------------------------|-----------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| Continuous Hazard                | Division 1      | Zone 0 / Zone 20 | A place in which an explosive atmosphere is continually present                                                      |
| Intermittent Hazard              |                 | Zone 1 / Zone 21 | A place in which an explosive atmosphere is likely to occur in normal operation                                      |
| Hazard Under Abnormal Conditions | Division 2      | Zone 2 / Zone 22 | A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods |

## IP Codes

| 1st No. | Solid Objects                          |
|---------|----------------------------------------|
| 0       | No protection                          |
| 1       | Objects greater than 50mm              |
| 2       | Objects greater than 12.5mm            |
| 3       | Objects greater than 2.5mm             |
| 4       | Objects greater than 1mm               |
| 5       | Dust protected                         |
| 6       | Dust proof                             |
| 2nd No. | Liquids                                |
| 0       | No protection                          |
| 1       | Vertically dripping                    |
| 2       | Dripping up to 15°                     |
| 3       | Limited spraying                       |
| 4       | Splashing from all directions          |
| 5       | Hosing jets from all directions        |
| 6       | Strong hosing jets from all directions |
| 7       | Temporary immersion                    |
| 8       | Continuous immersion                   |
| 9       | Steam-jet cleaning                     |

## IK Ratings

| IK Code | Level of Protection Achieved         |
|---------|--------------------------------------|
| IK00    | Not protected                        |
| IK01    | Protected against 0.14 joules impact |
| IK02    | Protected against 0.2 joules impact  |
| IK03    | Protected against 0.35 joules impact |
| IK04    | Protected against 0.5 joules impact  |
| IK05    | Protected against 0.7 joules impact  |
| IK06    | Protected against 1 joules impact    |
| IK07    | Protected against 2 joules impact    |
| IK08    | Protected against 5 joules impact    |
| IK09    | Protected against 10 joules impact   |
| IK10    | Protected against 20 joules impact   |

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