

IP Ratings and UL Listings

What are IP Ratings?

IP = Ingress Protection Mark. A two-digit system used to indicate the protection level of a mechanical or electrical item's enclosure. This system specifies users of item's barrier protection against solids and liquids.

IP Ratings:

- IP20 – protection against fingers and objects over 12 mm, no protection from liquids
- IP30 – protection against tools and wires over 2.5 mm, no protection from liquids
- IP65 – protection against dust and low-pressure water jets
- IP66 – protection against dust and high-pressure water jets, small traces of liquids allowed

What are UL Listings?

UL = Underwriter Laboratories. Safety organization that sets industry standards for products to protect both workers and consumers.

UL Listings:

- UL508 – Product specification for industrial control equipment. Product has been tested to be safe to start, stop, regulate, control, or protect devices.
- UL508A-Product specification and design rules for industrial control panels.
- UL916 – Energy management tools or sensing devices used to connect or disconnect a lighting load from a power supply. Maximum load of 600 volts or less.
- UL924 – Emergency lighting and power equipment that is used to provide light or power to important areas and equipment when a power outage occurs. Example exit signs, emergency lights, and automatic load control relays.
- UL2043 – Product has been tested against fire and smoke and how it performs under set circumstances.
- UL61010 – Electrical Equipment for Measurement, Control, and Laboratory Use. Product has been tested to ensure hazard to the user and the environment is kept to a minimum.

IP20 Rated Products

- Occupancy Sensors
 - OSM3D-DDW
 - OSM3D-V1W
 - OSMHB-VDW
- Lumina RF Wireless
 - ZSD07-AxZ
- GreenMAX DRC
 - DRCDD-0LO
 - DRD07-E30
 - DRD07-ED0
 - DRDDP-A20
 - DRDDP-A40
- GreenMAX Relay Panels
 - R08TC-100
 - R16TC-100
 - R32TC-100
 - R48TC-100
 - RXXXX-XXX
- Emergency Controls
 - ECS00-1X3

IP30 Rated Products

- Occupancy Sensors
 - OSR15-MCW
- Lumina RF Wireless
 - DL05S-D0Z
 - DLDNK-01W
 - DLDNK-02W
 - DLDNK-04W
 - DLDNK-08W
- GreenMAX DRC
 - DRC00-0LO
- VerifEye Submetering Solutions
 - 70D12-000
 - 70D48-000
 - 70N12-000
 - 70N48-000
 - 71D12-000
 - 71D48-000
 - 72D48-000
 - 73D48-000

IP65 Rated Products

- Occupancy Sensors
 - HBE11-IUB
 - OFD1Z-ISW
 - OFDUZ-ISW
 - OSF0L-00W
 - OSF20-ILW
 - OSF20-IUW
 - OSFHW-CTW

IP66 Rate Products

- Occupancy Sensors
 - OFD1Z-IOW
 - OFD1Z-ISW
 - OFDUZ-IOW
 - OFDUZ-ISW
 - ZLD1Z-IOW
 - ZLDUZ-IOW



OFD1Z-ISW

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UL508 Listed Products

- Lumina RF Wireless
 - ZSD07-AxZ
 - ZSS10-GxZ
 - ZSS10-NxZ
- GreenMAX Relay Panels
 - R0800-000
 - R08TC-100
 - R1600-000
 - R1616-1CB
 - R1616-1DS
 - R1616-1TB
 - R1616-2CB
 - R1616-2TB
 - R16TC-100
 - R32TC-100
 - R48TC-100
 - RELAY-1C
 - RELAY-1D
 - RELAY-1TB
 - RELAY-2CB
 - RELAY-2TB
 - RELAY-BFM
 - RGBAR-008
 - RGBAR-016
 - RHDU1-300
 - RHDU1-BKT
 - RLV08-308
 - RLV16-316
 - RPM00-300
 - RPM08-308
 - RPM16-316
- Track Light Limiting Panel (TLLP)
- VerifEye Submetering Solutions
 - 41OUB-01B
 - 41OUB-02B
 - 41OUB-04B
 - 41OUB-08B
 - 41OUB-12R
 - 41OUB-18R
 - 41OUB-24R
 - 41OUM-01M
 - 41OUM-02M
 - 41OUM-04M
 - 41OUM-08M
 - 41OUM-R12
 - 41OUM-R18
 - 41OUM-R24
 - 4DUBM-01B
 - 4DUBM-02B
 - 4DUBM-04B
 - 4DUBM-08B
 - 4DUBM-12R
 - 4DUBM-18R

- 4DUBM-24R
- 4DUMR-01M
- 4DUMR-02M
- 4DUMR-04M
- 4DUMR-08M
- 4DUMR-12R
- 4DUMR-18R
- 4DUMR-24R
- 4KUMR-00M
- 4KUMR-00R
- 4KUMR-01M
- 4KUMR-02M
- 4KUMR-04M
- 4KUMR-08M
- 4KUMR-R12
- 4KUMR-R18
- 4KUMR-R24
- 4OUMR-01M
- 4OUMR-02M
- 4OUMR-04M
- 4OUMR-08M
- 4OUMR-R12
- 4OUMR-R18
- 4OUMR-R24

UL508A Listed Products

- UL508A Panels
 - 70D12-N4X
 - 70D48-N4X
 - 81000-L12
 - 81000-L48
 - 81H00-000
 - 81M00-000
 - A8810-41M
 - A8810-41R
 - U0M00-E00
 - UMH00-000



70D48-000



A8810-41M

UL916 Listed Products

- Lumina RF Wireless
 - DLDNK-01W
 - DLDNK-02W
 - DLDNK-04W
 - DLDNK-08W
- GreenMAX Relay Panels
 - RELAY-1C
 - RELAY-1D
 - RELAY-1T
 - RELAY-2CB
 - RELAY-2TB
 - RELAY-BFM
- VerifEye Submetering Solutions
 - CDA01-212
 - CDA01-312
 - CDA01-K12
 - CDA01-L12
 - CDA01-R12
 - CDA02-212
 - CDA02-312
 - CDA02-K12
 - CDA02-L12
 - CDA02-R12
 - CDE01-211
 - CDE01-311
 - CDE01-K11
 - CDE01-L11
 - CDE01-R11
 - CDE02-211
 - CDE02-311
 - CDE02-K11
 - CDE02-L11
 - CDE02-R11
 - CDF04-K24
 - CDV01-K17
 - CDV02-K17
 - CTC08-K46
 - CTC12-K46
 - CTC16-K96
 - CTC30-57B
 - CTC50-57B
 - CTD01-K16
 - CTD02-K16
 - CTD04-K23
 - CTV01-K21
 - CTV01-KD0
 - CTV02-K21
 - CTV02-KD0
 - CTV04-K40
 - CTV04-KD1
 - CTV08-K40
 - CTV08-KG1
 - CTV5X-WA4
 - CRV50-K62
 - CRV50-K62
 - CRV50-K93
 - CRV50-K93
 - CRV50-KC2
 - CRV50-KC2
 - CRV50-LR2
 - CRV50-LR4



ZLDNK-04W



R16TC-100



CDE01-K11

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UL924 Listed Products

- GreenMAX Relay Panels
 - R08TC-100
 - R16TC-100
 - R32TC-100
 - R48TC-100
 - RELAY-1C
 - RELAY-1CB
 - RELAY-1D
 - RELAY-1DS
 - RELAY-1TB
 - RELAY-2CB
 - RELAY-2TB
 - RELAY-BFM
- R0800-000
- R1600-000
- R1616-1CB
- R1616-1DS
- R1616-1TB
- R1616-2CB
- R1616-2TB
- R0800-000
- R1600-000

UL2043 Listed Products

- Power Packs
 - OPP20-0D1
 - OPP20-0D2
 - OPP20-RD3
 - OPP20-RD4
- GreenMAX DRC
 - DRC00-0L0
 - DRC07-E30
 - DRC07-ED0
 - DRD07-E30
 - DRD07-ED0

UL61010 Listed Products

- VerifEye Submetering Solutions
 - A7810-PS1
 - A8810-PS1
 - A8332-8FD
 - A8332-PS1
 - A8911-PS1
- UL508A Panels
 - A8810-41M
 - A8810-41R



OPP20-0D1



DRC07-ED0



A8810-PS1

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