

VOLTAGE INDICATORS

Illuminate whenever hazardous voltage is present in any individual phase



VOLTAGE INDICATOR FEATURES







- ▶ **Voltage indicators** are Permanent Electrical Safety Devices (PESDs) that visually represent presence of voltage with flashing or non-flashing redundant LED lights.
- ▶ Typically hardwired to the load side of a disconnect switch on a MCC bucket or a variable frequency drive, **voltage indicators** illuminate whenever hazardous voltage or stored energy is present in the system.
- ▶ **R-3W Series voltage indicators** are a one-size-fits-all solution that detect 3-phase AC/DC voltage for both AC and DC applications from 40-600VAC and 30-1000VDC, respectively.
- ▶ Safely and productively visualizes energy presence and enhances compliance to OSHA & NFPA 70E/CSAZ462 when installed and verified by a qualified electrician and incorporated into the facility's electrical safety procedure.



OPERATION

GracePESDs® voltage indicators are self powered, UL listed, and permanently installed devices that visually represent presence of voltage with flashing or non-flashing, redundant LED lights. Typically hardwired to the load side of an electrical feeder or a disconnect switch, voltage indicators illuminate whenever hazardous voltage is present in any individual phase. Voltage indicators greatly assist task qualified personnel with enhanced productivity and reduced risk while performing mechanical and electrical LOTO tasks by verifying the release of stored electrical energy per Article 120.5(4) of NFPA 70E 2021.

TECHNICAL SPECIFICATIONS

	CAT III & IV RATED					CAT III & IV RATED
						
COMPONENT CODE	R-3W R-3W-KB*	R-3W-SR R-3W-SR-KB*	R-3W2 R-3W2-KB* Class 1 Div 2	R-3F2	R-3W-DC R-3W-DC-KB*	R-3D2 R-3D2-SR R-3D2-W5 R-3D2-SR5
Voltage Indicator	Flashing LEDs	Non-Flashing LEDs	Flashing LEDs			Flashing/ Non-Flashing LEDs
Voltage Type	AC/DC				DC	AC/DC
Mounting Location	External (Door/Flange mounted)					External (Conduit Knockout)
Voltage to Door Required	Yes			No	Yes	
Lead Connections	3 Phase, 4 Wire				1 Phase, 3 Wire	3 Phase, 4 and 5 wire
Storage Temperature Range	-45°C to + 85°C				-45°C to +55°C	-45°C to + 85°C
Operational Temperature Range	-20°C to +55°C				-40°C to +55°C	-20°C to +55°C
Operational Voltage Range	40 - 600 VAC 50/60/400Hz, 30 - 1000VDC	35 - 600 VAC 50/60/400Hz, 30 - 1000VDC	40 - 600 VAC 50/60/400Hz, 30 - 1000VDC	20 - 600 VAC 50/60/400Hz, 20 - 1000VDC	20 - 600 VAC 50/60/400Hz, 15 - 1000VDC	20 - 600 VAC 50/60/400Hz, 15 - 1000VDC
Wiring Specifications	PVC Insulated with Nylon Jacket, 8ft, 18 AWG, 90°C @ 1000 Volts, UL-1452			PVC Insulated with nylon jacket, 8ft, 18 AWG 90°C @ 1000V, UL-1452	PVC Insulated with nylon jacket, (3) 8ft, 18 AWG 90°C @ 1000V, UL-1452	PVC Insulated with Nylon Jacket, 3ft, 12 AWG, 90°C @ 1000 Volts, UL-1452
Fiber Optic Length	N/A			Available in: 24", 36", 48", and 72"	N/A	N/A
Installation	30mm Pushbutton Hole					3/4" or M20 conduit knockout
Certifications	cUL Listed (#E256847) Type 4, 4X, 12, 13 CAT III, IV		cUL Listed (#E334957) Type 4X, 12, 13, CAT III, IV, Class 1 Div 2 Group A, B, C & D, IP67, CE	cUL Listed (#E256847) Type 4, 4X, 12, 13 CAT III, IV, Class 1 Div 2 Group A, B, C & D, IP67	cUL Listed (#E256847) Type 4, 4X, 12, 13 Class 1 Div 2 Group A, B, C, & D, IP67, CE	cUL Listed (#E334957) Type 4X, 12, 13 CAT III, IV, Class 1 Div 2, IP67, CE

*Part numbers listed are Bezel Kits complete with both the Bezel and Voltage Indicator.

COMBINATION UNITS

Grace PESD® Combination Units take our voltage indicator and voltage portal PESDs and couple them together with our custom labels. With our voltage indicator and portal connected to the same source, a task qualified worker or a qualified electrician can perform both presence and absence of voltage tests by using either a Non-Contact Voltage Detector (NCVD) pen or an adequately rated portable test instrument. Combination Units are available to order with custom procedure labels and NCVD pens.

Voltage Indicator and Safe-Test Point™ Combination Units



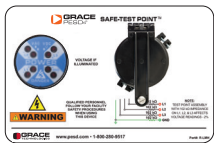
R-3WMT-LMH



R-3WMT-LMF



R-3W2MT-LMF



R-3W2MT-LMH

Voltage Indicator and Voltage Portal Combination Units



R-3KW-LCH



R-3KW2-LCH



R-3KW-LCF



R-3KW2-LCF

NEW EZ-UPGRADE

If you have an existing R-3W series voltage indicator or Safe-Test Point™ installed, you can upgrade to a combination unit using our EZ-Upgrade kit that includes a detailed magnetic installation template. Simply mount the template on top of the existing voltage indicator or Safe-Test Point™ and mark the knockout location for the secondary device. The R-3W voltage indicator and Safe-Test Point™ are both installed through 30mm knockouts. The EZ-Upgrade kit will also include a new combination label, if desired.

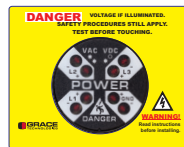


R-3MT-EZ-H

R-3W-EZ-F

Please contact your Sales Representative for more information on all available configurations.

ACCESSORIES



R-3W-L-KIT



Back View



Voltage Indicator Kits and Warning Labels

Install around the R-3W Series Voltage Indicators. The labels are not UL approved.

R-3W Voltage indicator and warning label.....R-3W-L-KIT
 Warning label.....R-3W-L
 R-3W Voltage indicator, bezel mount and warning label.....R-3W-KB-L-KIT
 Warning label for bezel mount.....R-3W-KB-L
 Vertical warning label.....R-3W-NP-F

Bezel Mount Kits

Creates a low-profile look. Bezel mount and Voltage indicator are sold together in the kits below.

R-3W Voltage indicator with bezel.....R-3W-KB*
 R-3W-SR Voltage indicator with bezel.....R-3W-SR-KB*
 R-3W2 Voltage indicator with bezel.....R-3W2-KB*
 R-3W-DC Voltage indicator with bezel.....R-3W-DC-KB*

Door Mount Kit

Applies to R-3W, R-3W2, R-3W-SR. Voltage Indicator sold separately.

Door mount kit with 6' cable.....R-3W-DR-C6

Conduit Adapter

Applies to R-3W, R-3W2, R-3W-SR. Voltage Indicator sold separately.

30mm - 1 1/4" Conduit adapter (shown to the left).....R-3W-NPT125
 1 1/2" Conduit adapter with VI nameplate (vertical) (not shown).....R-3W-NPT150-NP

FOR MORE INFORMATION VISIT PESD.COM OR CALL 1.800.280.9517

Warning: Verify an electrical conductor has been de-energized using an adequately rated test instrument before working on it. Follow appropriate Energy Control (Lockout/Tagout) procedures as per OSHA Subpart S.

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