

# **MoDOT**

## **TRAFFIC OPERATIONS APPROVED PRODUCTS LIST**

### **TRAFFIC SIGNALS, HIGHWAY LIGHTING, AND HIGHWAY SIGNING EQUIPMENT**

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## TRAFFIC SIGNALS AND HIGHWAY LIGHTING EQUIPMENT

### I. GENERAL

This Approved Products List (APL) is based on equipment meeting department specifications and being tested for the specified test period with satisfactory performance. All models shall conform to the latest revisions of the Missouri Standard Specifications for Highway Construction, the Missouri Standard Plans for Highway Construction, the MoDOT Engineering Policy Guide, and any other applicable documents unless otherwise indicated. In addition, all products shall comply with 2 CFR 200.216 – Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment. Conformance to MoDOT standards and specifications does not guarantee addition to the APL. Other factors such as, but not limited to, build quality, durability, ease of installation and use, and cost of repair may be taken into consideration. The models indicated on the APL are approved but are subject to final field inspection before acceptance. The models shown on the APL have not been verified to meet Build America Buy America (BABA) requirements.

The department frequently tests new products and equipment for traffic signals and highway lighting. These new products may be installed on a construction project or purchased via parts orders. Vendors may submit a product, at no cost to the department, for the test period. MoDOT will determine the methods and needs of the product for test. Only a limited number of units will be accepted for test statewide until an item is added to the APL. A vendor wishing to initiate a test on a new product shall submit a Product Evaluation Request Form - Signal and Lighting Equipment. Copies of this form can be obtained from our website at <https://www.modot.org/traffic>. Minor model changes do not require an evaluation period; however, the vendor shall submit specification sheets, a summary of changes from the current to former model, and a sample of the product for the Department to inspect.

All equipment evaluations are coordinated through MoDOT Highway Safety & Traffic Department. The vendor supplying the equipment shall provide equipment specifications and a certification that the equipment meets department specifications before the test is performed. The equipment is tested for the period specified in the APL. Products not performing satisfactorily or falls below established standards will be replaced with an approved product if the vendor cannot provide timely correction of the problem or if unsatisfactory operation of the intersection results.

If a vendor is proposing a product that does not meet department specifications, an explanation of why the product meets or exceeds the current specifications must be provided by the vendor in writing to Traffic Operations. If approved, the product may be tested for the specified period noted in the APL. If the product is satisfactory, the Department will consider a revision to the applicable specifications. Any modification to the device must be reviewed and approved by MoDOT prior to sale/use of the modified device. Products will not be added to the APL that do not meet department specifications.

Products on the APL shall continue to perform satisfactorily. In addition, the vendors shall support the products. Products not performing as required or not supported are subject to removal from the APL.

Grounds for removal of products include, but not limited to:

- Significant change in product specifications or design without notification to the department.
- Failure to correct or replace products that are defective in manufacturing or workmanship.
- Repeated patterns of malfunctions of a product not adequately corrected by the vendor.
- Unreasonable pricing of repair parts or repair work. Repair work not completed in a reasonable time frame.
- Excessive delivery times for new purchases or replacement parts.

Changes in standard specifications may also necessitate removal of specific products from the APL. If this occurs, there will be a grace period where the product will be retained on the list after the specifications are changed. However, the product will be removed from the APL if it is not revised to meet specifications.

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## II. HIGHWAY LIGHTING

All highway lighting equipment require a one-year evaluation period except for items noted requiring a six-month evaluation.

### LIGHTING POLES

*NOTE: Poles do not require an evaluation period. Poles shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Lighting poles are subject to field inspection before acceptance.*

<b>STEEL POLES</b>	<b>DRAWING NUMBER</b>
Ameron Pole Products	MO98AT3 – Rev. 4 (Type AT45) Design 1 & 2
Ameron Pole Products	MO98AT2 – Rev. 4 (Type AT45) Design 3, 4 & 5
Ameron Pole Products	MO98AT4 – Rev. 3 (Type AT30)
Ameron Pole Products	MO98B2 – Rev. 3 (Type B45 & MB45)
Ameron Pole Products	MO98B4 – Rev. 2 (Type B30)
Millerbernd Manufacturing Co.	730B907 (Type AT30)
Millerbernd Manufacturing Co.	730B653 (Type AT45)
Millerbernd Manufacturing Co.	730B908 (Type B30)
Millerbernd Manufacturing Co.	730B909 (Type B45)
Millerbernd Manufacturing Co.	730B910 (Type MB45)
Union Metal Industries Corp.	71020-B2 - Rev. 5 (Type AT30)
Union Metal Industries Corp.	71020-B3 - Rev. 4 (Type B30)
Union Metal Industries Corp.	71019-B6 - Rev. 7 (Type AT45)
Union Metal Industries Corp.	71019-B7 - Rev. 4 (Types B45 & MB45)
Union Metal Industries Corp.	71019-B8 – Rev. 3 (Type B30)
Union Metal Industries Corp.	71019-B9 – Rev. 3 (Type B45)
Union Metal Industries Corp.	71019-B10 – Rev. 3 (Type MB45)
Union Metal Industries Corp.	71020-B103 – Rev. 3 (Type AT30)
Union Metal Industries Corp.	71020-B104 – Rev. 4 (Type AT45)
Valmont	DB00019 – Rev. N (Types AT30 & B30)
Valmont	DB00020 – Rev. N (Types AT45, B45 & MB45)

  

<b>ALUMINUM POLES</b>	<b>DRAWING NUMBER</b>
Valmont	MO-051707 (Type AT-30)

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## FOUNDATIONS

*NOTE: Screw anchor foundations do not require an evaluation period. Screw anchor foundations shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Screw anchor foundations are subject to field inspection before acceptance.*

<b>SCREW ANCHOR FOUNDATIONS</b>	<b>DRAWING NUMBER</b>
Component Products, Inc.	SLSF 8-5 (Type AT30)
Component Products, Inc.	SLSF 10-7 (Type AT45)
Hubbell Chance	SA112-0696 – Rev. H (Type AT30)
Hubbell Chance	SA112-0786 – Rev. E (Type AT45)
Integrated Traffic Solutions, Inc.	ITS AT30 (Type AT30)
Integrated Traffic Solutions, Inc.	ITS AT45 (Type AT45)
J.H. Botts	JHB MOH 30 – Rev. C (Type AT30)
J.H. Botts	JHB MOH 45 – Rev. D (Type AT45)

## LED LUMINAIRES

*NOTE: LED Luminaires do not require a field evaluation period. LED Luminaires shall be pre-approved by submittal of documents as required by the MoDOT standards and specifications in order to be added to the list. LED Luminaires shall be fabricated in accordance with MoDOT specifications and standards. Because there is no evaluation period MoDOT reserves the right to deny a product due to evaluations or experiences with a product by other agencies.*

*LED Luminaire models listed meet the minimum requirements of MoDOT standards and specifications. Higher lumen outputs, as required by site-specific design, may be provided for the listed models provided that MoDOT standards and specifications continue to be met.*

## BRACKET ARM MOUNT (120/277V)

<b>LED-A</b>	<b>MODEL</b>
American Electric Lighting (AEL)	ATB0-P203-MVOLT-R3-3K-NL-NR-BAA
American Electric Lighting (AEL)	ATB0-P203-MVOLT-R3-3K-NL-P7-SH-BAA*
American Electric Lighting (AEL)	ATB0-P203-MVOLT-R3-3K-NL-NR
American Electric Lighting (AEL)	ATB0-P203-MVOLT-R3-3K-NL-P7-SH*
Cooper	ARCH-S-PA1-60-730-U-T3-AP-10K-K
Cooper	BABA-ARCH2-60-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cooper	ARCH2-60-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cree	GWYS-A-8L-30K7-3M-UL-GY-Q9-U-W10
GE	ERLH-0-10-C3-30-D-GRAY-G-R*
LeoTek	GCJ3-30J-MV-30K-3R-GY-075-WL-4B
LeoTek	GCJ3-30J-MV-30K-3R-GY-075-WL-4B-PCR7-SC*
Lumec	RPN-65W20LED-730-G1-R3M-UNV-DMG-NRC-GY3
Lumec	RPN-65W20LED-730-G1-R3M-UNV-DMG-PH9-TLRD7-GY3*
Solar Max	SMX-68WiE-NV-LL5-00-3070-T302-P*

\* ANSI C136.41 7-pin receptacle with shorting cap included

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<b>LED-B</b>	<b>MODEL</b>
American Electric Lighting (AEL)	ATB0-P303-MVOLT-R3-3K-GRAY-NL-NR-BAA
American Electric Lighting (AEL)	ATB0-P303-MVOLT-R3-3K-GRAY-NL-NR
American Electric Lighting (AEL)	ATB0-P303-MVOLT-R3-3K-GRAY-NL-P7-SH-BAA*
American Electric Lighting (AEL)	ATB0-P303-MVOLT-R3-3K-GRAY-NL-P7-SH*
American Electric Lighting (AEL)	ATB2-40BLEDE10-MVOLT-R3-3K-NL-HK-NR
American Electric Lighting (AEL)	ATB2-40BLEDE10-MVOLT-R3-3K-NL-HK-P7-SH*
Cooper	ARCH-S-PA2-110-730-U-T3-AP-10K-K
Cooper	ARCH-S-PA2-110-730-U-T3-AP-10K-K-PSC-PR7*
Cooper	BABA- ARCH3-100-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cooper	ARCH3-100-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cree	GWYM-A-17L-30K7-3M-UL-GY-Q7-U-W10
GE	ERLH-0-15-C3-30-D-GRAY-G-R*
Lumec	RPM-105W40LED-730-G1-R3M-UNV-DMG-NRC-GY3
Lumec	RPM-105W40LED-730-G1-R3M-UNV-DMG-PH9-TLRD7-GY3*
Solar Max	SMX-105WiE-NV-LL5-00-3070-T302-P*

*\* ANSI C136.41 7-pin receptacle with shorting cap included*

<b>LED-C</b>	<b>MODEL</b>
American Electric Lighting (AEL)	ATB0-P453-MVOLT-R3-3K-NL-NR-BAA
American Electric Lighting (AEL)	ATB0-P453-MVOLT-R3-3K-NL-NR
American Electric Lighting (AEL)	ATB0-P453-MVOLT-R3-3K-NL-P7-SH-BAA*
American Electric Lighting (AEL)	ATB0-P453-MVOLT-R3-3K-NL-P7-SH
Cooper	ARCH-M-PA2-160-730-U-T3-AP-10K-K
Cooper	ARCH-M-PA2-160-730-U-T3-AP-10K-K-PSC-PR7*
Cooper	BABA-ARCH3-160-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cooper	ARCH3-160-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cree	GWYL-A-25L-30K7-3M-UL-GY-Q6-U-W10
GE	ERL2-0-21-C3-30-D-GRAY-G-R*
Holophane	MGLEDM-P21-30K-MVOLT-MR-VH-GRSD-NL
Holophane	MGLEDM-P21-30K-MVOLT-MR-VH-GRSD-NL-PR7-SH*
Lumec	RPM-130W60LED-730-G1-R3M-UNV-DMG-NRC-GY3
Lumec	RPM-130W60LED-730-G1-R3M-UNV-DMG-PH9-TLRD7-GY3*
Solar Max	SMX-166WiE-NV-LL5-00-3070-T302-P *

*\* ANSI C136.41 7-pin receptacle with shorting cap included*

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## BRACKET ARM MOUNT (480V)

LED-A	MODEL
American Electric Lighting (AEL)	ATB0-P203-480-R3-3K-NL-NR-BAA
American Electric Lighting (AEL)	ATB0-P203-480-R3-3K-NL-NR
American Electric Lighting (AEL)	ATB0-P203-480-R3-3K-NL-P7-SH-BAA*
American Electric Lighting (AEL)	ATB0-P203-480-R3-3K-NL-P7-SH*
Cree	GWYS-A-8L-30K7-3M-UH-GY-Q9-U-W10
Cooper	ARCH-S-PA1-60-730-8-T3-AP-10K-K
Cooper	ARCH-S-PA1-60-730-8-T3-AP-10K-K-PSC-PR7*
Leotek	GCJ3-30J-HV-30K-3R-GY-075-WL-4B
Leotek	GCJ3-30J-HV-30K-3R-GY-075-WL-4B-PCR7-SC*
Lumec	RPN-65W20LED-730-G1-R3M-HVU-DMG-NRC-GY3
Lumec	RPN-65W20LED-730-G1-R3M-HVU-DMG-PH9-TLRD7-GY3*
Solar Max	SMX-68WiE-HV-LL5-00-3070-T302-P*

*\* ANSI C136.41 7-pin receptacle with shorting cap included*

LED-B	MODEL
American Electric Lighting (AEL)	ATB0-P303-480-R3-3K-NL-NR
American Electric Lighting (AEL)	ATB0-P303-480-R3-3K-NL-P7-SH*
American Electric Lighting (AEL)	ATB2-40BLEDE10-MVOLT-R3-3K-NL-HK-NR
American Electric Lighting (AEL)	ATB2-40BLEDE10-MVOLT-R3-3K-NL-HK-P7-SH*
Cooper	ARCH-S-PA2-110-730-8-T3-AP-10K-K
Cooper	ARCH-S-PA2-110-730-8-T3-AP-10K-K-PSC-PR7*
Cree	GWYM-A-17L-30K7-3M-UH-GY-Q7-U-W10
GE	ERLH-5-15-C3-30-D-GRAY-G-R*
Lumec	RPM-105W40LED-730-G1-R3M-HVU-DMG-NRC-GY3
Lumec	RPM-105W40LED-730-G1-R3M-HVU-DMG-PH9-TLRD7-GY3*
Solar Max	SMX-105WiE-HV-LL5-00-3070-T302-P *

*\* ANSI C136.41 7-pin receptacle with shorting cap included*

## MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

LED-C	MODEL
American Electric Lighting (AEL)	ATB0-P453-480-R3-3K-NL-NR
American Electric Lighting (AEL)	ATB0-P453-480-R3-3K-NL-P7-SH*
Cooper	ARCH-M-PA2-160-730-8-T3-AP-10K-K
Cooper	ARCH-M-PA2-160-730-8-T3-AP-10K-K-PSC-PR7*
Cree	GWYL-A-25L-30K7-3M-UH-GY-Q6-U-W10
GE	ERL2-5-21-C3-30-D-GRAY-G-R*
Holophane	MGLEDM-P21-30K-480-MR-VH-GRSD-NL
Holophane	MGLEDM-P21-30K-480-MR-VH-GRSD-NL-PR7-SH*
Lumec	RPM-130W60LED-730-G1-R3M-HVU-DMG-NRC-GY3
Lumec	RPM-130W60LED-730-G1-R3M-HVU-DMG-PH9-TLRD7-GY3*
Solar Max	SMX-166WiE-HV-LL5-00-3070-T302-P *

\* ANSI C136.41 7-pin receptacle with shorting cap included

### HIGH MAST LIGHTING

MANUFACTURER	MODEL
Cooper	CST Celestron
Holophane	HMLED4 Series
Lumec	HighFocus Series
Metrolux	VA Series

### POLE TOP MOUNTING

MANUFACTURER	MODEL
Holophane	MGLEDM Series

### UNDERPASS (WALLPACKS)

MANUFACTURER	MODEL
Cooper	WP Series
Holophane	WallConnect Series
Hubbell	PGM-150S Series
Lithonia	TWR Series

### CONTROL EQUIPMENT

CONTACTORS-ELECTROMECHANICAL	MODEL
Square D	Type S
Eaton	A202 Series

CONTACTORS-MERCURY	MODEL
Dayton/Duracool	6A/6X Series
Magnecraft	WM Series

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## BASE MOUNTED CONTROL CABINETS

*NOTE: Cabinets that meet MoDOT specifications from the following manufacturers will be accepted. All other manufacturers must provide a model that meets specifications and complete a satisfactory six-month evaluation as described above to be added to the list.*

Coxline

Hoffman

Inland Technologies

Myers Power Products

Powergrid Solutions Inc.

## MOUNTING SOCKET FOR PHOTOELECTRIC CONTROL

*NOTE: Mounting sockets require a six-month evaluation.*

### MODEL

American Electric Lighting

DUR

Fischer-Pierce

S476-71

## PHOTOELECTRIC CONTROL

### MODEL

American Electric Lighting

D120-1.0-STJ (Dark to Light) (120 volt)

American Electric Lighting

D124-1.0-STJ (120/240 volt)

American Electric Lighting

D240-1.0-STJ (240 volt)

American Electric Lighting

DE480-1.0-TJ (480 volt)

Fischer-Pierce

FPN7790B (105 – 285 volt)

Fischer-Pierce

FPN7772 (195 – 305 volt)

Fischer-Pierce

FPN7794 (480 volt)

Fischer-Pierce

FPN7760 (120 volt)

General Electric (GE)

PEC01TL (>120v/< 305v w/ time delay)

General Electric (GE)

PEC1TL (120v)

General Electric (GE)

PEC5TL (480v)

ITT

SAT-15

TE Connectivity

SST-120 (120 volt)

TE Connectivity

SST-240 (240 volt)

TE Connectivity

SST-PV (120/240 volt)

Tyco

6190 VPS

## TYPE A CIRCUIT BREAKERS

### MODEL

Square D

BDL Series

Westinghouse/Cutler-Hammer

EHD Series (1-Pole)

Westinghouse/Cutler-Hammer

FDB Series (2-Pole)

## MISCELLANEOUS

### AVIATION LIGHTING

### MODEL

Hughey & Phillips (hugheyandphillips.com)

Horizon AC Series

Hughey & Phillips

FlashGuard 3000B

Flight Light, Inc. (flightlight.com)

AV-OL-310

### NAVIGATION LIGHTING

### MODEL

Tideland (orgasignal.com)

MaxiHALO-60 II

Tideland

Nova-65

Pharos Marine Automatic Power, Inc.

FA-143 LED LR

Pharos Marine Automatic Power, Inc.

FA-249 RF-14-LED

## MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

<b>FUSED SLIP CONNECTORS</b>	<b>MODEL</b>
<i>NOTE: Slip connectors require a six-month evaluation.</i>	
Bussmann	HEB-JW-RYC

<b>METER SERVICE PEDESTAL (LIGHTING)</b>	<b>MODEL</b>
Milbank 4-Circuit 240V Lighting	CP3B51C1PBAOMO3
Milbank 4-Circuit 480V Lighting	CP3B51D1PBAOMO1
Milbank 4-Circuit 480V Lighting (used for Ameren cold sequence)	CP3B51D1PBAOMOCS1
Pacific Utility Products 4-Circuit 240V Lighting	USP24-M2100-100-MODOT6-120/240V <i>Note: -- (Pacific Utility Products-insert "R" after USP24 for ringless meter sockets when utility requires)</i>
Pacific Utility Products 4-Circuit 480V Lighting	USP16-M2100-100-MODOT2-240/480V <i>Note: -- (Pacific Utility Products-insert "R" after USP16 for ringless meter sockets when utility requires)</i>
Pacific Utility Products 4-Circuit 480V Lighting	USP24-M2100-100-MODOT6-240/480V <i>Note: -- (Pacific Utility Products-insert "R" after USP24 for ringless meter sockets when utility requires)</i>

<b>SPLICE KITS</b>	<b>MODEL</b>
3M	82A1 (Single)
3M	82A2 (Single)
3M	82B1 (Three Way)
3M	82B2 (Three Way)
HOMAC HMC Industries	RAB 1/0 Series

<b>TRANSFORMER BASES</b>	<b>MODEL</b>
Akron Foundry	TB1-17H (for AT30)
Akron Foundry	TB3-17H (for AT45)

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## III. TRAFFIC SIGNAL EQUIPMENT

All traffic signal equipment requires a one-year evaluation period.

### CONTROLLERS

<b>NEMA CONTROLLERS</b>	<b>MODEL</b>
Econolite	Cobalt Series
McCain	ATC eX2 NEMA

<b>TYPE 170 CONTROLLERS</b>	<b>MODEL</b>
McCain	ATC eX 2070

### CABINETS AND BACK PANELS (NEMA & S.S. PRETIMED)

*NOTE: Cabinets and Back panels that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.*

<b>NEMA CABINET AND BACK PANEL ASSEMBLIES</b>
Bison Control Technologies (Southern Manufacturing)
Econolite
McCain
Mobotrex
Trafficware

### CABINETS AND RACKS (TYPE 2070 CONTROLLERS)

*NOTE: Cabinets and Racks that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.*

<b>332 AND 336S CABINET AND RACK ASSEMBLIES</b>
Mobotrex (33x)
Safetran
Swarco McCain (332D, 332E, 332L and 336L)

### CONFLICT MONITORS

<b>NEMA CONFLICT MONITORS</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	NSM-6E
Eberle Design Incorporated (EDI)	NSM-12E
Eberle Design Incorporated (EDI)	SSM-12LE Series
Eberle Design Incorporated (EDI)	MMU-16E
Eberle Design Incorporated (EDI)	MMU2-16LE Series
Reno A&E	MMU-1600 Series
Reno A&E	MMU2-1600 Series

<b>170 CONFLICT MONITORS</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	2010ECLip
Eberle Design Incorporated (EDI)	2018ECLip

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## CABINET ACCESSORIES

<b>AUXILIARY TIME CLOCK</b>	<b>MODEL</b>
Applied Information	AI-500-070
Eltec	TC-18
Eltec	TC-3000
RTC	AP22

<b>FLASHERS (NEMA &amp; 170)</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	810
Power Distribution & Control (PDC)	SSF-86
Power Distribution & Control (PDC)	SSF-88
Reno A&E	FL-200
Traffic Sensor Corp	204
Traffic Sensor Corp	204-15
Traffic Sensor Corp	304
Traffic Sensor Corp	304-15

<b>FLASH TRANSFER RELAYS</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	TR-200
Struthers-Dunn	21ACPX-2/21ACPXD-5
Power Distribution & Control (PDC)	FTR 91

<b>LOAD SWITCHES(NEMA &amp; 170)</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	510
Power Distribution & Control (PDC)	SSS-86
Power Distribution & Control (PDC)	SSS-88
Reno A&E	LS-200
Traffic Sensor Corp	200
Traffic Sensor Corp	200-15
Traffic Sensor Corp	300
Traffic Sensor Corp	300-15

<b>ISOLATORS (170 only) (242=DC, 252=AC)</b>	<b>MODEL</b>
Eberle Design Incorporated	242L
GDI Communications	DIM242
GDI Communications	ACIM252
Power Distribution & Control (PDC)	242
Power Distribution & Control (PDC)	252

<b>SURGE PROTECTORS</b>	<b>MODEL</b>
Hesco/RLS	HE1750

## DETECTORS

<b>MICROWAVE DETECTORS</b>	<b>MODEL</b>
MS Sedco	TC-CK1-SBE INTERSECTOR

## MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

<b>PEDESTRIAN PUSH BUTTONS</b>	<b>MODEL</b>
Campbell	4 EVR MOAB
Pelco	SE-2178-Pxx
Polara Engineering, Inc	BDSP-010-B
<b>ACCESSIBLE PEDESTRIAN SIGNALS</b>	<b>MODEL</b>
Campbell	Guardian
Campbell	Guardian Mini
Polara	iDS/iNS (2-wire)
Polara	iDS/iNS (3-wire)
<b>POWER SUPPLY FOR CARD RACK DETECTORS - NEMA</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	PS-175B
<b>SINGLE CHANNEL SHELF MOUNT DETECTORS, STANDARD</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	Oracle S1E
<b>SINGLE CHANNEL SHELF MOUNT DETECTORS, TIME DELAY</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	LMD301T
<b>ULTRASONIC DETECTORS</b>	<b>MODEL</b>
MS Sedco	VPR-30
<b>2-CHANNEL CARD RACK COUNTING DETECTORS, DUAL OUTPUT</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	Oracle 2EC
<b>2-CHANNEL CARD RACK COUNTING DETECTORS, SINGLE OUTPUT PULSE MODE MODEL (NEMA)</b>	<b>MODEL</b>
Reno A&E	C-1000 Series
<b>2-CHANNEL CARD RACK DETECTORS, STANDARD (170)</b>	<b>MODEL</b>
Eberle Design Incorporated (EDI)	LM222
Eberle Design Incorporated (EDI)	LMD222
Oriux	222-GP8
Reno A&E	222
<b>2-CHANNEL CARD RACK DETECTORS, STANDARD (NEMA)</b>	<b>MODEL</b>
Reno A&E	C-1000 Series
Reno A&E	G-200 Series
<b>2-CHANNEL CARD RACK DETECTORS, TIME DELAY (NEMA)</b>	<b>MODEL</b>
Reno A&E	C-1000 Series
Reno A&E	GT-200 Series

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## SIGNAL HEADS

<b>BACKPLATES</b>	<b>MODEL</b>
Intelight	BP INTLIT Series
Pelco	BK-100x Series
Pelco	BK-8000 Series
Traffic Parts	44xx Series

<b>LOUVERS</b>	<b>MODEL</b>
Pelco	GL-1000 Series

<b>POLYCARBONATE SIDE-MOUNT BRACKETS WITH RELATED HARDWARE</b>	<b>MODEL</b>
Component Products	All models
Mobotrex	UKS1452AB

<b>SIGNAL HEADS - OPTICALLY LIMITED</b>	<b>MODEL</b>
Intelight, Inc	ESB Series
McCain	HPTS Series

<b>SIGNAL HEADS - POLY CONVENTIONAL</b>	<b>MODEL</b>
Econolite	TP Series
General Traffic Equipment Corp	T-30 POLY
McCain	MTSTP Series
Mobotrex	SA Series
North American Signal	PTxx2BBx0CBxMO
Oriux	PSS Series
Traffic Parts, Inc.	SIG-TPB-305-CTN-NVN-0N (3 section)
Traffic Parts, Inc.	SIG-TPB-586-CTN-NVN-0N (5 section)

<b>PEDESTRIAN HEAD – POLY 1-SECTION</b>	<b>MODEL</b>
General Traffic Equipment	P8-CDLED-SAMx-GV-B
McCain	M32258 w/ M27164
Mobotrex	SG7MZ1xC1BBF10-00

## **SIGNAL AND PEDESTRIAN LED SIGNAL INDICATIONS**

LED signal indications must be ETL verified. The Intertek ETL Verified Directory of LED Traffic Signal Modules Certified Products is located at: <https://www.intertek.com/lighting/infrastructure/traffic-signals/>. Signal indications manufactured by GE/Current Lighting Solutions shall not be accepted regardless of ETL Verified status.

<b>PROGRAMMABLE VIEW</b>	<b>MODEL</b>
GELcore	DR3-RCFB-01A (Red Ball)
GELcore	DR3-YCFB-01A (Yellow Ball)
GELcore	DR3-GCFB-01A (Green Ball)

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## HARDWARE

*NOTE: Hardware that meets MoDOT specifications from the following manufacturers will be accepted. For compatibility with existing hardware and ease of maintenance, no other hardware will be accepted.*

<b>SIGNAL HARDWARE</b>
Pelco

<b>STRANDVISE</b>	<b>MODEL</b>
MacLean Power Systems	5202 (Reliable 3/8" Strandvise)
MacLean Power Systems	5200 (Reliable 1/4" Strandvise)

## POSTS AND MAST ARMS

*NOTE: Posts and Mast Arms do not require an evaluation period. Posts and Mast Arms shall be fabricated in accordance with MoDOT specifications and standards. Posts and Mast Arms shall be pre-approved as required by the MoDOT standards and specifications to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Posts and Mast Arms are subject to field inspection before acceptance.*

<b>STEEL POSTS AND MAST ARMS</b>	<b>DRAWING NUMBER</b>
Ameron Pole Products	MO13TR11 - Rev. B (Type C)
Ameron Pole Products	MO13TR12 - Rev. B (Type CL)
Ameron Pole Products	MO13TR13 - Rev. B (Type B)
Ameron Pole Products	MO13TR14 - Rev. B (Type BL)
Maico Industries, Inc.	MOMAST 1-5A Rev. 1-6 (Types C, CL, B & BL)
Millerbernd Manufacturing Company	1005022 (Type B)
Millerbernd Manufacturing Company	1003534 (Type BL)
Millerbernd Manufacturing Company	1005004 (Type C)
Millerbernd Manufacturing Company	1003523 (Type CL)
Millerbernd Manufacturing Company	500A971 Millerbernd
Pelco Structural, LLC	MODMA1001 & 1002 (Type B)
Pelco Structural, LLC	MODMAL1001 & 1002 (Type BL)
Pelco Structural, LLC	MOSMA1001 & 1002 (Type C)
Pelco Structural, LLC	MOSMAL1001 & 1002 (Type CL)
Union Metal Industries Corp	30443-B202 - Rev. 19 (Types C, CL, B & BL)
Valmont	DB00408 - Rev. H

## MISCELLANEOUS

<b>LOOP SEALANTS</b> (Loop sealants do not require material certification)	<b>MODEL</b>
3M	5000
Bondo	575
Bondo	P606
Durant Paints	Stat-A-Flex Polyseal
Pecora	NR-201
RAI Products	Pro-Seal 6006
Traffic Control Corp, subsidiary of H.B. Fuller	290S
Traffic Control Corp, subsidiary of H.B. Fuller	296-06

## MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

<b>PEDESTAL BASES</b>	<b>MODEL</b>
Akron Foundry	TS-1000-L-P
Akron Foundry	TS-1000-L-WP
Pelco	PB5336
Pelco	PB5337
Traffic Parts	TP 289 X

<b>SPLICE KITS (DETECTOR LEAD-IN)</b>	<b>MODEL</b>
3M	DBY Series
HOMAC HMC Industries	RAB 1/0 Series

<b>METER SERVICE PEDESTAL (SIGNALS/SIGNALS &amp; LIGHTING)</b>	<b>MODEL</b>
Milbank 120V Signal Only (Ameren)	CP3B51C1PAAOMO1
Milbank 120V Signal with 2-Circuit 240V Lighting (Ameren)	CP3B51C1PBAOMO2
Milbank 120V Signal with 2-Circuit 240V Lighting Dual Meter	CP3B62C2NBAOMO1
Myers 120V Signal with 2-Circuit 240V Lighting	MEUGLA-M100-MDOT
Myers 120V Signal with 2-Circuit 240V Lighting	MEUG 20
Pacific Utility Products 120V Signal Only	USPA-100-100-MODOT <i>Note: -- (Pacific Utility Products-insert "R" after USPA for ringless meter sockets when utility requires)</i>
Pacific Utility Products 120V Signal with 1-Circuit 240V Lighting	USPA-100-100-MODOT <i>Note: -- (Pacific Utility Products-insert "R" after USPA for ringless meter sockets when utility requires)</i>
Pacific Utility Products 120V Signal with 4-Circuit 240V Lighting	USP16-M2100-112C-MODOT-120/240V <i>Note: -- (Pacific Utility Products-insert "R" after USP16 for ringless meter sockets when utility requires)</i>
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting	USP24-M2100-100-MODOT6-120/240V <i>Note: -- (Pacific Utility Products-insert "R" after USP24 for ringless meter sockets when utility requires)</i>
Pacific Utility Products 120V Sgnl w/2-Circuit 240V Lighting Dual Mtr	USPD24-2M2200-11212-CTB2-120/240V <i>Note: -- (Pacific Utility Products-insert "R" after USPD24 for ringless meter sockets when utility requires)</i>
Tesco 120V Signal with 2-Circuit 240V Lighting	28-105 Type III BF
Tesco 120V Signal with 2-Circuit 240V Lighting	28-102F

### **VIDEO DETECTION SYSTEMS**

<b>MANUFACTURER</b>	<b>MODEL</b>
Currux	Vision
Econolite	Autoscope RackVision
Econolite	Autoscope Vision
FLIR	VIP 3D.x Series
Iteris	Vantage Next
Iteris	Vantage Vector
Miovision	Core DCM w/ Smartview 360 camera
NoTraffic	NT-Det
Oriux	VideoTrak IQ-P
Oriux	VideoTrak IQ-ITS

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST**

**RADAR DETECTION SYSTEMS**

<b>MANUFACTURER</b>	<b>MODEL</b>
Wavetronix	SmartSensor Matrix

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## IV. POWER SUPPLY EQUIPMENT AND PULL BOXES

All items require a six-month evaluation period.

MAIN SERVICE DISCONNECT ENCLOSURE WITH SAFETY SWITCH (NEMA 4)	MODEL
General Electric (GE)	TE 100 CS
Westinghouse	WFDN 100

PREFORMED PULL BOX-CLASS 1 (STRAIGHT)	MODEL
Armorcast Products Company	A6001640TAPCX22 (Box & Lid)
GlasMasters	AP173024P22P-4J6
NewBasis	PCA173024-MODOT1 (Box & Lid)
Oldcastle	H1730-24 (Box)
Oldcastle	H1730-PI (Lid)
Oldcastle	PHA173024HO1R
Oldcastle	173022PC
Strongwell/Quazite	PG1730B532 (Box)
Strongwell/Quazite	PG1730H511 (Lid)
Strongwell/Quazite	PG1730BA Series
Synertech	S1730B24AA (Box)
Synertech	S1730HBB0A (Lid)

PREFORMED PULL BOX-CLASS 1 (FLARED)	MODEL
American Polymer Company	P173024U22 (Box & Lid)
Armorcast Products Company	A6001640TAX24 (Box & Lid)
NewBasis	FCA173024T Series (Box & Lid)
Oldcastle	1730/22 FRP
Oldcastle	CHA173024HO1R
Pencell Plastics	PEM-1830-PCX (Box & Lid)

PREFORMED PULL BOX-CLASS 2 (STRAIGHT)	MODEL
Armorcast Products Company	A6001974TAPCX26 (Box & Lid)
Armorcast Products Company	A6001974TAPCX24
GlasMasters	AP243624P22P-4J6
NewBasis	PCA243624-MODOT2 (Box & Lid)
Oldcastle	H2436-24 (Box)
Oldcastle	H2436-PI (Lid)
Oldcastle	PHA243624HO1R
Oldcastle	243624PC
Strongwell/Quazite	PG2436B539 (Box)
Strongwell/Quazite	PG2436H508 (Lid)
Strongwell/Quazite	PG2436BA Series
Synertech	S2436B26AA (Box)
Synertech	S2436HCB0A (Lid)

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST**

<b>PREFORMED PULL BOX-CLASS 2 (FLARED)</b>	<b>MODEL</b>
American Polymer Company	P243624U22 (Box & Lid)
Armorcast Products Company	A6001974TAX26 (Box & Lid)
Armorcast Products Company	A6001974TAX24
NewBasis	FCA243624T Series (Box & Lid)
Oldcastle	2436/24 FRP
Pencell Plastics	PEM-2436-36 (Box & Lid)
Pencell Plastics	PEM-2436-PCX-24 (Box & Lid)
Synertech	S2436B24AA (Box)
Synertech	S2436HCB0A (Lid)

<b>PREFORMED PULL BOX-CLASS 3 (STRAIGHT)</b>	<b>MODEL</b>
Armorcast Products Company	A6001430TAPCX36 (Box & Lid)
Glasmasters	AP304836M22P-XX-4J6 (Box & Lid)
NewBasis	PCA304836-MODOT3 (Box & Lid)
Oldcastle	H3048-36 (Box)
Oldcastle	H3048-P1 (Lid)
Oldcastle	PHA304836HO1R
Oldcastle	304836PC
Strongwell/Quazite	PG3048B560 (Box)
Strongwell/Quazite	PG3048H517 (Lid)
Strongwell/Quazite	PG3048BA Series
Synertech	S3048B36AA (Box)
Synertech	S3048HCB0A (Lid)

<b>PREFORMED PULL BOX-CLASS 3 (FLARED)</b>	<b>MODEL</b>
American Polymer Company	P304836HU22 (Box & Lid)
Armorcast Products Company	A6001550TAX36 (Box & Lid)
NewBasis	FCA304836T Series (Box & Lid)
Oldcastle	3048/36 FRP
Oldcastle	CHA304836HO1R
Pencell Plastics	PEM-3048-36-PCX-SPLIT (Box & Lid)

<b>PREFORMED PULL BOX-CLASS 5 (FLARED)</b>	<b>MODEL</b>
Armorcast Products Company	A6001466TA (Box & Lid)
Armorcast Products Company	A6000172TAX36 (Box & Lid)
NewBasis	FCA320036T Series
NewBasis	FCA400036T Series
Oldcastle	CRA3236H01
Oldcastle	320036 FRP
Quazite	PR3944Z504

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## HIGHWAY SIGNING EQUIPMENT

### V. GENERAL

This Approved Products List (APL) for highway signing equipment contains current pre-approved products for highway signing. This APL is applicable to department purchases and construction contracts. The APL includes products that have been approved for use based on satisfactory performance during a specified test period. Products listed have undergone sufficient field testing to be considered acceptable for use at any time. All field tests of new products or pending products should be arranged with MoDOT Highway Safety & Traffic Division (HSTD). The models indicated on the APL are approved but are subject to final field inspection before acceptance. The models shown on the APL have not been verified to meet Build America Buy America (BABA) requirements.

The department frequently tests new products and equipment for highway signing. These new products may be installed on a construction project or used for normal department installations and maintenance. Vendors may also submit items, at no cost to the department, for the test period. Only a limited number of units will be accepted for test statewide until the product is added to the APL. A vendor wishing to initiate a test on a new product shall submit a Product Evaluation Request Form. Copies of this form can be obtained from our website at <https://www.modot.org/traffic> or contact HSTD. Minor model changes of previously approved products do not require a new evaluation period, although the vendor shall submit specification sheets and a sample of the product for the Department to inspect. Any modifications determined to potentially alter the performance of the product may require the product to undergo additional field testing and evaluation.

All product evaluations are coordinated through HSTD. The vendor supplying the equipment shall provide equipment specifications and a certification that the equipment meets department specifications before the test is performed. The equipment is tested for the period specified by HSTD (typically one year). Products that are not performing satisfactorily will be left off of the list. Products that were previously approved that begin to perform unsatisfactorily will be removed or replaced with an approved product if the vendor cannot provide timely correction of the problem.

If a vendor is proposing a product that does not meet department specifications, an explanation of why the product meets or exceeds the current specifications must be provided by the vendor in writing to HSTD. If approved, the product may be tested for the specified period as described above. If the product is satisfactory, the Department will consider a revision to the applicable specifications. Products will not be added to the APL that does not meet department specifications.

Products on the APL shall continue to perform satisfactorily. In addition, the vendors shall support the products. Products not performing as required or not supported are subject to removal from the APL.

Grounds for removal of products include but are not limited to:

- Significant change in product specifications or design without notification to the department.
- Failure to correct or replace products that are defective in manufacturing or workmanship.
- Repeated patterns of malfunctions of a product not adequately corrected by the vendor.
- Unreasonable pricing of repair parts or repair work. Repair work not completed in a reasonable time frame.
- Excessive delivery times for new purchases or replacement parts.

Changes in standard specifications may also necessitate removal of specific products from the APL. If this occurs, there will be a grace period where the product will be retained on the list after the specifications are changed. However the product will eventually be removed from the list if it is not revised to meet specifications.

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST**

**VI. HIGHWAY SIGNING EQUIPMENT**

**BREAKAWAY DEVICES**

<b>MANUFACTURER</b>	<b>DESCRIPTION, MODEL</b>
Dent Breakaway Industries, Inc.	3/4" Dent Bolt, #6882
Dent Breakaway Industries, Inc.	5/8" Dent Bolt, #6878
Dent Breakaway Industries, Inc.	1/2" Dent Bolt, #6874
Dent Breakaway Industries, Inc.	5/8" Ground Anchors (Galvanized)
Dent Breakaway Industries, Inc.	5/8" Modified Dent Bolt, #6220
Dent Breakaway Industries, Inc.	3/4" Modified Dent Bolt, #6882
Designovations, Inc	Snap n Safe S200 and S200S (2")
Designovations, Inc	Snap n Safe S250 and S250 S (2.5")
Northwest Pipe Company	S-Q 8" Square Slipbase for 2.5" PSST, 31209
Ultimate Highway Products	Triangular Slip Base for 2.5" PSST, Slip-Mate
Xcessories Squared	Kleen Break 425 for 2" PSST, XKB42520-G
Xcessories Squared	Kleen Break Surface Mount 425 for 2" PSST
Xcessories Squared	XKBSM42520-G
Xcessories Squared	Redi-Torque 280 for 2.5" PSST, SB8C-250A-G
Xcessories Squared	Redi-Torque 280 Pre-Assembled Slip Base for 2.5"
Xcessories Squared	PSST, RT8UX-25C25-G
Xcessories Squared	Redi-Torque Triangular Surface Mount Base
Xcessories Squared	SMSB9-10-G
Xcessories Squared	Redi-Torque Bolt Kit, RTSB-MPHDW

**4 INCH SQUARE STEEL TUBE SIGNPOST – SINGLE POST INSTALLATION ONLY**

This post is only used to support the following items:

- Exit Gore Signs
- Flat Sheet Signs 48" wide ranging in height from 60" to 96"
- Community Wayfinding Signs

<b>MANUFACTURER</b>	<b>DESCRIPTION, MODEL</b>
Xcessories Squared	MASSH-400 Signpost System with 54" concrete anchor
Atkore Allied Tube and Conduit	SafeSign Signpost System with 54" concrete anchor

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

## SIGN HARDWARE

<b>MANUFACTURER</b>	<b>DESCRIPTION, MODEL</b>
Xcessories Squared	Aluminum Post Clamp for 2.5" Pipe, XAPC278RD
Xcessories Squared	Aluminum Post Clamp for 3" Pipe, XAPC350RD
Xcessories Squared	Aluminum Post Clamp for 4" Pipe, XAPC450RD
Xcessories Squared	Aluminum Post Clamp for Backer Bar, XAB750
Xcessories Squared	Aluminum Sign Backer Bar, ASB200P1
Xcessories Squared	Extruded Panel Clamp for 4" Square Post, EPPCS400SQ
Xcessories Squared	Extruded Panel Clamp for 2" PSST, EPPCS200SQ
Xcessories Squared	Extruded Panel Clamp for 2.5" PSST, EPPCS250SQ
Xcessories Squared	Flat Sheet Post Clamp for 4" Square Post, SBPCS400SQ (Used with aluminum sign backer bar ASB200P1)
Xcessories Squared	Extruded Panel Clamp for 2.5" Pipe, EPPCS250RD
Xcessories Squared	Extruded Panel Clamp for 3" Pipe, EPPCS300RD
Xcessories Squared	Extruded Panel Clamp for 4" Pipe, EPPCS400RD
Xcessories Squared	Extruded Panel Clamp for 4x4 Wood, EPPCS44W
Xcessories Squared	Extruded Panel Clamp for 4x6 Wood, EPPCS46W
Xcessories Squared	Extruded Panel Clamp for 6x6 Wood, EPPCS66W

## SIGNS

<b>MANUFACTURER</b>	<b>DESCRIPTION, MODEL</b>
Tapco	Blinkersigns

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST – RECENT REVISIONS**

**RECENTLY ADDED:**

**II. HIGHWAY LIGHTING**

**LED LUMINAIRES**

**BRACKET ARM MOUNT (120/277V)**

<b>LED-A</b>	<b>MODEL</b>
American Electric Lighting (AEL)	ATB0-P203-MVOLT-R3-3K-NL-NR-BAA
American Electric Lighting (AEL)	ATB0-P203-MVOLT-R3-3K-NL-P7-SH-BAA
Cooper	BABA-ARCH2-60-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cooper	ARCH2-60-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cree	GWYS-A-8L-30K7-3M-UL-GY-Q9-U-W10

<b>LED-B</b>	<b>MODEL</b>
American Electric Lighting (AEL)	ATB0-P303-MVOLT-R3-3K-GRAY-NL-NR-BAA
American Electric Lighting (AEL)	ATB0-P303-MVOLT-R3-3K-GRAY-NL-P7-SH-BAA
Cooper	BABA-ARCH3-100-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cooper	ARCH3-100-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cree	GWYM-A-17L-30K7-3M-UL-GY-Q7-U-W10

<b>LED-C</b>	<b>MODEL</b>
American Electric Lighting (AEL)	ATB0-P453-MVOLT-R3-3K-NL-NR-BAA
American Electric Lighting (AEL)	ATB0-P453-MVOLT-R3-3K-NL-P7-SH-BAA
Cooper	BABA-ARCH3-160-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cooper	ARCH3-160-730-U-T3-AP-10K-K-PSC-10X-MoDOT
Cree	GWYL-A-25L-30K7-3M-UL-GY-Q6-U-W10

**BRACKT ARM MOUNT (480V)**

<b>LED-A</b>	<b>MODEL</b>
Cree	GWYS-A-8L-30K7-3M-UH-GY-Q9-U-W10

<b>LED-B</b>	<b>MODEL</b>
Cree	GWYM-A-17L-30K7-3M-UH-GY-Q7-U-W10

<b>LED-C</b>	<b>MODEL</b>
Cree	GWYL-A-25L-30K7-3M-UH-GY-Q6-U-W10

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST – RECENT REVISIONS**

**HIGH MAST LIGHTING**

<b>MANUFACTURER</b>	<b>MODEL</b>
Cooper	CST Celestron
Holophane	HMLED4 Series
Lumec	HighFocus Series

**POLE TOP MOUNTING**

<b>MANUFACTURER</b>	<b>MODEL</b>
Holophane	MGLEDM Series

**UNDERPASS (WALLPACKS)**

<b>MANUFACTURER</b>	<b>MODEL</b>
Holophane	Wallconnect LEDSeries
Lithonia	TWR Series

**III. TRAFFIC SIGNAL EQUIPMENT**

**DETECTORS**

<b>ACCESSIBLE PEDESTRIAN SIGNALS</b> <i>(Category added April 2026)</i>	<b>MODEL</b>
Campbell	Guardian
Campbell	Guardian Mini
Polara	iDS/iNS (2-wire)
Polara	iDS/iNS (3-wire)

**IV. POWER SUPPLY EQUIPMENT AND PULL BOXES**

<b>PREFORMED PULL BOX-CLASS 3 (STRAIGHT)</b>	<b>MODEL</b>
Glasmasters	AP304836M22P-XX-4J6 (Box & Lid)

**VI. HIGHWAY SIGNING EQUIPMENT**

**No updates**

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST – RECENT REVISIONS

## RECENTLY REMOVED:

### II. HIGHWAY LIGHTING

#### LIGHTING POLES

STEEL POLES	DRAWING NUMBER	NOTE
JEM Engineering and Manufacturing	MO-AT30 – Rev. 3 (Type AT30)	<i>Removed April 2026, company no longer exists</i>
JEM Engineering and Manufacturing	MO-AT45 – Rev. 3 (Type AT45)	<i>Removed April 2026, company no longer exists</i>

#### LED LUMINAIRES

##### BRACKET ARM MOUNT (120/277V)

LED-A	MODEL	NOTE
Cree	XSPSM-D-HT-3ME-8L-30K7-UL-SV-N-Q7	<i>Removed April 2026, item no longer manufactured</i>
Cree	RSWM-B-HT-3ME-9L-30K7-UL-GY-N-Q3	<i>Removed April 2026, item no longer manufactured</i>

LED-B	MODEL	NOTE
Cree	XSPLG-D-HT-3ME-18L-30K7-UL-SV-N-Q5	<i>Removed April 2026, item no longer manufactured</i>
Cree	RSWL-B-HT-3ME-14L-30K7-UL-GY-N-Q9	<i>Removed April 2026, item no longer manufactured</i>

LED-C	MODEL	NOTE
Cree	XSPLG-D-HT-3ME-24L-30K7-UL-SV-N-Q6	<i>Removed April 2026, item no longer manufactured</i>

##### BRACKET ARM MOUNT (480V)

LED-A	MODEL	NOTE
Cree	XSPSM-D-HT-3ME-8L-30K7-UH-SV-N-Q7	<i>Removed April 2026, item no longer manufactured</i>
Cree	RSWM-B-HT-3ME-9L-30K7-UH-GY-N-Q3	<i>Removed April 2026, item no longer manufactured</i>

LED-B	MODEL	NOTE
Cree	XSPLG-D-HT-3ME-18L-30K7-UH-SV-N-Q5	<i>Removed April 2026, item no longer manufactured</i>
Cree	RSWL-B-HT-3ME-14L-30K7-UH-GY-N-Q9	<i>Removed April 2026, item no longer manufactured</i>

LED-C	MODEL	NOTE
Cree	XSPLG-D-HT-3ME-24L-30K7-UH-SV-N-Q6	<i>Removed April 2026, item no longer manufactured</i>

#### HIGH PRESSURE SODIUM LUMINAIRES

BRACKET ARM MOUNT – 150 WATT	MODEL	NOTE
American Electric Lighting	115 Series	<i>Removed April 2026, category no longer needed</i>
American Electric Lighting	Durastar 2000, Series 30	<i>Removed April 2026, category no longer needed</i>
Holophane	Mongoose Series	<i>Removed April 2026, category no longer needed</i>

**MISSOURI DEPARTMENT OF TRANSPORTATION  
APPROVED PRODUCTS LIST – RECENT REVISIONS**

<b>BRACKET ARM MOUNT - 250 WATT</b>	<b>MODEL</b>	<b>NOTE</b>
American Electric Lighting	115 Series	<i>Removed April 2026, category no longer needed</i>
American Electric Lighting	Durastar 2000, Series 30	<i>Removed April 2026, category no longer needed</i>
Holophane	Mongoose Series	<i>Removed April 2026, category no longer needed</i>

<b>BRACKET ARM MOUNT - 400 WATT</b>	<b>MODEL</b>	<b>NOTE</b>
American Electric Lighting	125 Series	<i>Removed April 2026, category no longer needed</i>
American Electric Lighting	Durastar 2000, Series 30	<i>Removed April 2026, category no longer needed</i>
Holophane	Mongoose Series	<i>Removed April 2026, category no longer needed</i>

**HIGH MAST LIGHTING**

<b>MANUFACTURER</b>	<b>MODEL</b>	<b>NOTE</b>
Cooper	HMC Series	<i>Removed April 2026, item no longer manufactured</i>
General Electric (GE)	HMA Series	<i>Removed April 2026, item no longer manufactured</i>
Holophane	HMAO Series	<i>Removed April 2026, item no longer manufactured</i>
Holophane	HMS Series	<i>Removed April 2026, item no longer manufactured</i>

**POLE TOP MOUNTING**

<b>MANUFACTURER</b>	<b>MODEL</b>	<b>NOTE</b>
Holophane	HL2A Series	<i>Removed April 2026, item no longer manufactured</i>
Holophane	Mongoose Series	<i>Removed April 2026, item no longer manufactured</i>

**UNDERPASS (WALLPACKS)**

<b>MANUFACTURER</b>	<b>MODEL</b>	<b>NOTE</b>
American Electric Lighting	582 Series	<i>Removed April 2026, item no longer manufactured</i>
General Electric (GE)	WAL Series	<i>Removed April 2026, item no longer manufactured</i>
Holophane	MDWP Series	<i>Removed April 2026, item no longer manufactured</i>
Holophane	WL2K Series	<i>Removed April 2026, item no longer manufactured</i>

**SIGN LIGHTING - 250 WATT**

<b>MANUFACTURER</b>	<b>MODEL</b>	<b>NOTE</b>
General Electric (GE)	V2FN Series	<i>Removed April 2026, category no longer needed</i>
Guth	B17632 Series	<i>Removed April 2026, category no longer needed</i>
Holophane	PANL Series	<i>Removed April 2026, category no longer needed</i>
Holophane	SNVW Series	<i>Removed April 2026, category no longer needed</i>

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST – RECENT REVISIONS

## SIGN LIGHTING - 400 WATT

MANUFACTURER	MODEL	NOTE
Holophane	PANL Series	<i>Removed April 2026, category no longer needed</i>
Holophane	SNVW Series	<i>Removed April 2026, category no longer needed</i>

## CONTROL EQUIPMENT

BASE MOUNTED CONTROL CABINETS	NOTE
Cleveland Switchboard	<i>Removed April 2026, company no longer exists</i>

## III. TRAFFIC SIGNAL EQUIPMENT

EXTERNAL T.B.C. COORDINATORS	MODEL	NOTE
Eltec	TC-18	<i>Removed April 2026, category no longer needed</i>

## CABINET ACCESSORIES

FLASH TRANSFER RELAYS	MODEL	NOTE
Mid-Tex	136-62T-3A1	<i>Removed April 2026, item no longer manufactured</i>

SURGE PROTECTORS	MODEL	NOTE
ASCO Power Technologies	258120NF015ATBN0 (Model 258)	<i>Removed April 2026, item no longer manufactured</i>

TONE RECEIVERS	MODEL	NOTE
Iniven	IR-30M-05-30	<i>Removed April 2026, category no longer needed</i>

TONE TRANSMITTERS	MODEL	NOTE
Iniven	IT-30	<i>Removed April 2026, category no longer needed</i>

## SIGNAL HEADS

### SIGNAL AND PEDESTRIAN LED SIGNAL INDICATIONS

PROGRAMMABLE VIEW	MODEL	NOTE
Dialight	P46-3R33-003 (Red Ball)	<i>Removed April 2026, item no longer manufactured</i>
Dialight	P46-3Y33-003 (Yellow Ball)	<i>Removed April 2026, item no longer manufactured</i>
Dialight	P46-3G33-003 (Green Ball)	<i>Removed April 2026, item no longer manufactured</i>

## MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST – RECENT REVISIONS

### POSTS AND MAST ARMS

STEEL POSTS AND MAST ARMS	DRAWING NUMBER	NOTE
JEM Engineering & Manufacturing	MODOT1-4 Rev. 2 (Types C, CL, B & BL)	<i>Removed April 2026, company no longer exists</i>

### VIDEO DETECTION SYSTEMS

MANUFACTURER	MODEL	NOTE
Cubic	Gridsmart	<i>Removed June 2026</i>
Econolite	Autoscope RackVision Terra	<i>Removed April 2026, item no longer manufactured</i>
Iteris	Vantage Edge2	<i>Removed April 2026, item no longer manufactured</i>

### IV. POWER SUPPLY EQUIPMENT AND PULL BOXES

MAIN SERVICE DISCONNECT ENCLOSURE WITH SAFETY SWITCH (NEMA 4)	MODEL	NOTE
Square D	FA-100-DS Series E2	<i>Removed April 2026, item no longer manufactured</i>

PREFORMED PULL BOX-CLASS 1 (STRAIGHT)	MODEL	NOTE
CDR	A14-1730 series-22" (Box & Lid)	<i>Removed April 2026, company no longer exists</i>
Composite Industries	CI183024PB1P	<i>Removed April 2026, company no longer exists</i>

PREFORMED PULL BOX-CLASS 1 (FLARED)	MODEL	NOTE
CDR	A12-1730 series-22" (Box & Lid)	<i>Removed April 2026, company no longer exists</i>

PREFORMED PULL BOX-CLASS 2 (STRAIGHT)	MODEL	NOTE
CDR	A14-2436 series-24" (Box & Lid)	<i>Removed April 2026, company no longer exists</i>
Composite Industries	CI243624PB1P	<i>Removed April 2026, company no longer exists</i>

PREFORMED PULL BOX-CLASS 2 (FLARED)	MODEL	NOTE
CDR	A12-2436 series-24" (Box & Lid)	<i>Removed April 2026, company no longer exists</i>
Oldcastle	CHA243624HO1R	<i>Removed April 2026, company no longer exists</i>

**MISSOURI DEPARTMENT OF TRANSPORTATION  
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<b>PREFORMED PULL BOX-CLASS 3 (STRAIGHT)</b>	<b>MODEL</b>	<b>NOTE</b>
CDR	A14-3048 series-36" (Box & Lid)	<i>Removed April 2026, company no longer exists</i>
Composite Industries	CI304836PB1P	<i>Removed April 2026, company no longer exists</i>

<b>PREFORMED PULL BOX-CLASS 3 (FLARED)</b>	<b>MODEL</b>	<b>NOTE</b>
CDR	A12-3048-series 36" (Box & Lid)	<i>Removed April 2026, company no longer exists</i>

<b>PREFORMED PULL BOX-CLASS 5 (FLARED)</b>	<b>MODEL</b>	<b>NOTE</b>
CDR	A12-3200 series-36" (Box & Lid)	<i>Removed April 2026, company no longer exists</i>

**VI. HIGHWAY SIGNING EQUIPMENT  
No updates**

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST – RECENT REVISIONS

## RECENTLY REVISED:

### II. HIGHWAY LIGHTING

#### LED LUMINAIRES

##### BRACKET ARM MOUNT (120/277V)

LED-C MODEL	OLD MODEL NUMBER	NEW MODEL NUMBER	NOTE
Holophane	MGLEDM-P2-30K-MVOLT-MR-VH-GRSD-NL	MGLEDM-P21-30K-MVOLT-MR-VH-GRSD-NL	<i>Changed April 2026, revised model number:</i>
Holophane	MGLEDM-P2-30K-MVOLT-MR-VH-GRSD-NL-PR7-SH	MGLEDM-P21-30K-MVOLT-MR-VH-GRSD-NL-PR7-SH	<i>Changed April 2026, revised model number</i>

##### BRACKET ARM MOUNT (480V)

LED-C	OLD MODEL NUMBER	NEW MODEL NUMBER	NOTE
Holophane	MGLEDM-P2-30K-480-MR-VH-GRSD-NL	MGLEDM-P21-30K-480-MR-VH-GRSD-NL	<i>Changed April 2026, revised model number</i>
Holophane	MGLEDM-P2-30K-480-MR-VH-GRSD-NL-PR7-SH	MGLEDM-P21-30K-480-MR-VH-GRSD-NL	<i>Changed April 2026, revised model number</i>

#### CONTROL EQUIPMENT

BASE MOUNTED CONTROL CABINETS	NEW COMPANY NAME	NOTE
Shallbetter	Powergrid Solutions Inc	<i>Changed April 2026, company name changed</i>

#### MISCELLANEOUS

METER SERVICE PEDESTAL (LIGHTING)	OLD MODEL	NEW MODEL	NOTE
Pacific Utility Products 4-Circuit 240V Lighting	USP24-M2100-100-MODOT6	Pacific Utility Products 4-Circuit 240V Lighting USP24-M2100-100-MODOT6-120/240V	<i>Changed April 2026, revised model number</i>
Pacific Utility Products 4-Circuit 480V Lighting	USP16-M2100-100-MODOT	Pacific Utility Products 4-Circuit 480V Lighting USP16-M2100-100-MODOT2-240/480V	<i>Changed April 2026, revised model number</i>
Pacific Utility Products 4-Circuit 480V Lighting	USP24-M2100-100-MODOT6-480	Pacific Utility Products 4-Circuit 480V Lighting USP24-M2100-100-MODOT6-240/480V	<i>Changed April 2026, revised model number</i>

# MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST – RECENT REVISIONS

## III. TRAFFIC SIGNAL EQUIPMENT

### DETECTORS

ULTRASONIC DETECTORS	OLD MODEL NUMBER	NEW MODEL NUMBER	NOTE
MS Sedco	TC-30	VPR-30	<i>Changed April 2026, revised model number</i>

### MISCELLANEOUS

METER SERVICE PEDESTAL (SIGNALS/SIGNALS & LIGHTING) MODEL	OLD MODEL	NEW MODEL NUMBER	NOTE
Pacific Utility Products 120V Signal Only	USP16-M2100-112C-MODOT6-TS	Pacific Utility Products 120V Signal Only USPA-100-100-MODOT	<i>Changed April 2026, revised model number</i>
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting	USPAR-100-100-MODOT	Pacific Utility Products 120V Signal with 1-Circuit 240V Lighting USPA-100-100-MODOT	<i>Changed April 2026, revised model number</i>
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting	USP16R-M2100-112C-MODOT	Pacific Utility Products 120V Signal with 4-Circuit 240V Lighting USP16-M2100-112C-MODOT-120/240V	<i>Changed April 2026, revised model number</i>
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting	USP24-M2100-100-MODOT6-TSL	Pacific Utility Products 120V Signal with 4-Circuit 240V Lighting USP24-M2100-100-MODOT6-120/240V	<i>Changed April 2026, revised model number</i>
Pacific Utility Products 120V Sgnl w/2-Circuit 240V Lighting Dual Mtr	USPD-2M2100-100-MODOT6	Pacific Utility Products 120V Signal w/4-Circuit 240V Lighting Dual Mtr USPD24-2M2200-11212-CTB2-120/240V	<i>Changed April 2026, revised model number:</i>

## IV. POWER SUPPLY EQUIPMENT AND PULL BOXES

**No updates**

## VI. HIGHWAY SIGNING EQUIPMENT

**No updates**