

JOB \_\_\_\_\_ TYPE \_\_\_\_\_

NOTES \_\_\_\_\_ APPROVALS \_\_\_\_\_

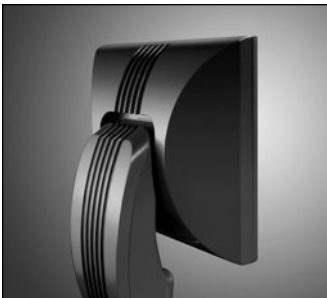
**FEATURES**

- Independently aimed LEAR™ modules
- 355° rotation and 70° tilt module adjustment and -5° to +30° housing adjustment
- Wide range of drive currents available
- Design software interface for user-defined Type X distribution creation
- Traditional NEMA distributions available
- IP66 sealed optical chamber

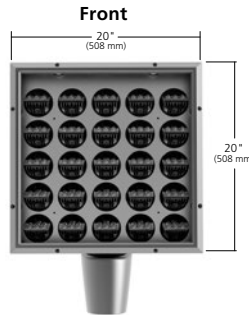
**Certifications**



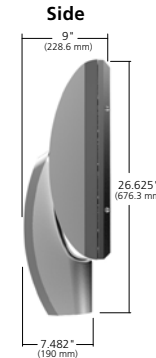
**SPECIFICATIONS**



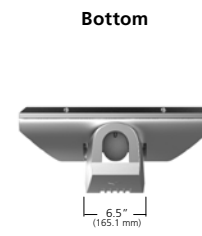
Max Weight = 64 lbs.



Front - EPA 3.63



Side - EPA 1.51



EPA 1.08

**ORDERING CODE**

ARFX25								
<b>Fixture</b>	<b>Distribution</b>	<b>Electrical Module</b>			<b>Fixture Finish</b>	<b>Photocell Options</b>	<b>Fuse Options</b>	
	SP Spot X <sup>1</sup> Type X <div style="border: 1px solid black; padding: 2px; display: inline-block;">Type X IES File Name</div>	<u>Color Temperature</u> 3K 3000K 4K 4000K 5K 5000K	<u>Drive Current</u> 35 350mA 40 400mA 45 450mA 50 500mA 55 550mA 60 600mA	<u>Voltagess</u> 65 650mA 70 700mA 75 750mA 80 800mA 85 850mA	<u>UV</u> 120-277V 347 347V 480 480V	LG Light Gray BL Black DB Dark Bronze GT Graphite PS Platinum Silver TT Titanium WH White CC <sup>2</sup> Custom Color	A25-7H <sup>3</sup> 7-pin Photocell Receptacle Horizontal A25-7V <sup>3</sup> 7-pin Photocell Receptacle Vertical A30 120V Button Photocell A31 208V Button Photocell A32 240V Button Photocell A33 277V Button Photocell A34 480V Button Photocell A35 347V Button Photocell	SF 120, 277, 347 Line Volts DF 208, 240, 480 Line Volts
<b>NFO Option</b>	<b>Control Options</b>			<b>Mounting Options</b>				
NFO Neighbor Friendly Optic	<u>Wireless</u> WIR-RMI-IO 120-480V, 1000' range, wiSCAPE RF control system with on/off/dim, alerts, monitoring and metering capabilities	<u>Control Accessories</u> SW7PR SiteSync™ on fixture module SWUSB <sup>†</sup> SiteSync™ loaded on USB flash drive (Windows® operating system only) SWTAB <sup>†</sup> SiteSync™ Windows® based Tablet SWBRG <sup>†</sup> SiteSync™ Wireless Bridge Node WIR-RME-L wiSCAPE External Fixture Module			<u>Motion</u> SCL-R Round Pole Mounted Occupancy Sensor up to 16' SCL-S Square Pole Mounted Occupancy Sensor up to 16' SCH-R Round Pole Mounted Occupancy Sensor 16' to 30' SCH-S Square Pole Mounted Occupancy Sensor 16' to 30'			SMT <sup>4</sup> Surface Mount Tenon SM2 <sup>4</sup> Stanchion Mount Tenon WM2 <sup>4</sup> Wall Mount Tenon MTM-2B Twin Mount Tenon MTM-3E Triple Mount Tenon

For Pole Spec Select: [http://www.kimlighting.com/products/arms\\_and\\_poles/](http://www.kimlighting.com/products/arms_and_poles/)  
For Control Spec Select: <http://trpssl.com/index.html>

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<sup>†</sup> When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

<sup>1</sup> User-defined distributions must include IES# file where indicated  
<sup>2</sup> Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative.  
<sup>3</sup> Indicates mounting position of fixture.  
<sup>4</sup> Not for use with MTM-2B or MTM-3E options.

Color Temp Field Angle - 10% max	Photometrics (3000K)										
	350 mA	400 mA	450 mA	500 mA	550 mA	600 mA	650 mA	700 mA	750 mA	800 mA	850 mA
Drive Current	350 mA	400 mA	450 mA	500 mA	550 mA	600 mA	650 mA	700 mA	750 mA	800 mA	850 mA
Lumens	4851	5140	5430	5719	6008	6297	6586	6876	7162	7454	7739
Maximum Candela	85094	90164	95250	100319	105388	110457	115525	120612	125629	130751	135750
Maximum Candela Angle H	0	0	0	0	0	0	0	0	0	0	0
Maximum Candela Angle V	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
Horizontal Beam Angle (50%)	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Vertical Beam Angle (50%)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4

Color Temp Field Angle - 10% max	Photometrics (4000K)										
	350 mA	400 mA	450 mA	500 mA	550 mA	600 mA	650 mA	700 mA	750 mA	800 mA	850 mA
Drive Current	350 mA	400 mA	450 mA	500 mA	550 mA	600 mA	650 mA	700 mA	750 mA	800 mA	850 mA
Lumens	6693	7092	7491	7890	8289	8688	9244	9486	9885	10284	10683
Maximum Candela	105903	112201	118530	124844	131157	137470	146268	150097	156410	162724	169037
Maximum Candela Angle H	0	0	0	0	0	0	0	0	0	0	0
Maximum Candela Angle V	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
Horizontal Beam Angle (50%)	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Vertical Beam Angle (50%)	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1

Color Temp Field Angle - 10% max	Photometrics (5000K)										
	350 mA	400 mA	450 mA	500 mA	550 mA	600 mA	650 mA	700 mA	750 mA	800 mA	850 mA
Drive Current	350 mA	400 mA	450 mA	500 mA	550 mA	600 mA	650 mA	700 mA	750 mA	800 mA	850 mA
Lumens	7362	7801	8240	8679	9118	9557	10168	10435	10874	11312	11751
Maximum Candela	116489	123433	130376	137336	144280	148462	149658	153588	160070	166520	172987
Maximum Candela Angle H	0	0	0	0	0	0	1	1	1	1	1
Maximum Candela Angle V	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
Horizontal Beam Angle (50%)	10.1	10.1	10.1	10.1	10.1	10.5	10.4	10.4	10.4	10.4	10.4
Vertical Beam Angle (50%)	12.1	12.7	12.7	12.7	12.7	12.8	13.2	13.2	13.2	13.2	13.2

Optical System	Electrical										Dimming						
	Current	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V purple wire		Absolute voltage range on 0-10V (+) purple wire	
			VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max
LEAR™	350 mA	93	120-480	50/60	0.78	0.45	0.39	0.34	0.27	0.19	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	400 mA	107			0.89	0.51	0.44	0.39	0.31	0.22							
	450 mA	120			1.00	0.58	0.50	0.43	0.35	0.25							
	500 mA	133			1.11	0.64	0.56	0.48	0.38	0.28							
	550 mA	143			1.19	0.69	0.60	0.52	0.41	0.30							
	600 mA	160			1.33	0.77	0.67	0.58	0.46	0.33							
	650 mA	171			1.42	0.82	0.71	0.62	0.49	0.36							
	700 mA	187			1.56	0.90	0.78	0.67	0.54	0.39							
	750 mA	200			1.67	0.96	0.83	0.72	0.58	0.42							
	800 mA	213			1.78	1.03	0.89	0.77	0.61	0.44							
850 mA	226	1.88	1.09	0.94	0.82	0.65	0.47										

**TM-21 LIFETIME CALCULATION\***

Optical System	Ambient Environment °C	Projected Lumen Maintenance			Reported L70
		16	26	TM-21 48	
LEAR™	25	91.20%	85.78%	74.96%	> 48,000 hrs

\*Projected lifetime from 700mA LM-80 data.

**LED COLOR**

	Spectroradiometric		
	3K	4K	5K
Designation	3000K	4000K	5000K
CRI Minimum	≥72	≥72	≥72
S/P Ratio	1.33	1.66	1.78

*Kim Lighting reserves the right to change specifications without notice.* Consult factory for Amber, Turtle Friendly, Gulf Coast and Observatory applications.

**SPECIFICATIONS**

**Housing:**

- Low copper aluminum alloy die-casting designed as one-piece with external cooling ribs.
- Solid cast aluminum walls between the housing and arm create a thermal barrier between the optical and electrical compartments.
- Molded silicone gaskets throughout to insure sealing between the two compartments and ingress protection.
- Housing designed with integral Type X thermal transfer “turrets” utilized for both thermal transfer and to secure location of the LEAR™ Optical Module. The turrets are spaced in rows of 5 X 5, designed to optimize photometric performance for standard and Type X user-defined distributions.
- Tempered UV coated flat lens for low glare.
- IK09 rated enclosure protects electrical equipment against external mechanical impacts.

**Lens Frame:**

- One-piece, die-cast, low copper aluminum alloy secured to housing with eight captive, tamper-resistant stainless steel fasteners.
- Molded silicone gasket assembles into a cast channel in the doorframe sealing the 3/16” thick low iron-content, tempered glass lens against the housing upon closure.
- IP66 certified to protect the interior components from dust and water ingress.

**Type X LEAR™ Optical Module:**

- Turret alignment and thermal transfer design allow for freedom of adjustability and precision of the LEAR LED array.
- Optimized standard distribution or user-defined beam patterns.
- 3000K, 4000K, 5000K standard CCT. Amber and other custom color temperatures available.
- Factory adjusted distributions created from user-defined IES files.
- Toolless 355° rotation adjustment and 70° tilt adjustment with a tamper resistant fastener.
- Type X LEAR modules are IP66 rated and utilize six high output LEDs, positioned beneath a precision, high purity molded acrylic prism.

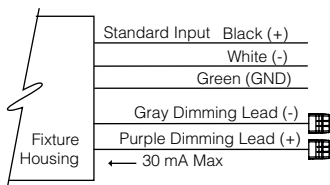
- Targeted optics minimize pixilation concerns to provide outstanding performance, uniformity and glare control.

**Electrical Components:**

- Standard programmable driver for variable drive current settings from 350mA to 850mA.
- Electrical components are located in the arm. Molded silicon gasket seal to isolate arm from the optical chamber.
- Maximum lightning surge current 20KA with thermally protected varistor technology. Surge suppression is series circuited preventing total fixture failure.
- Open circuit fault will turn off the luminaire protecting the sensitive electronics and acting as a signal for maintenance.
- Programmable Driver is rated for -40°F starting.
- “Thermal Shield” Primary Side thermister Protection for sustainable life of LEAR modules and electronic components.

**Dimming:**

- Dimming range from 10% to 100% by the use of its standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provided for user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V user-defined control devices.
- Optional factory programmed dimming profile.



**Arm:**

- Low copper aluminum alloy, two piece die-casting designed and gasketed to function as one-piece.
- External cooling ribs create continuous aesthetic and thermal path.
- Molded silicone gasket seals the wiring channel separating the arm from the housing thermally insulating the electronic components.

- Internally accessible slip-fitter provided. Attaches to a 1-1/4” to 2-3/8” tenon.
- Luminaire housing adjustable +30° and -5 via locking fastener under the arm cover.

**Finish:**

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

**Fuse Options:**

- SF** for 120, 277 and 347 Line Volts
- DF** for 208, 240 and 480 Line Volts.
- High temperature fuse holders factory installed inside the fixture arm. Fuse is included.

**Certifications and Listings:**

- UL 1598 Standard for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- RoHS compliant.
- IP66 certified.
- IEC 66262 Mechanical Impact Code IK09.

**CAUTION:**

- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

**WARRANTY:**

- For full warranty see: <http://www.hubbellighting.com/resources/warranty>

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**CONTROLS**

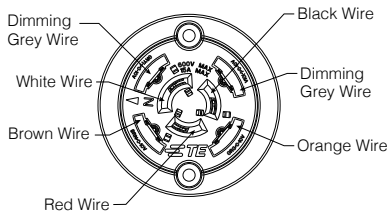
**Photocell Receptacle**

**A25-7H or A25-7V**

Fully gasketed and wired 7-pin receptacle standard. Easy access location above the electrical compartment. 7-pin construction allows user-defined interface and control definition of operational performance. ANSI twist-lock control module by-others. H (Horizontal) or V (Vertical) indicates mounting position of fixture.

Standard customer operation modes:

1. Traditional on/off photoelectric control.
2. 5-pin wireless photoelectric control for added dimming feature.
3. 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use.



**Button Photocell**

**A30** for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V,

Factory installed photocell inside housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

**Wireless Controls**

**wiSCAPE™**

Hubbell Control Solution's wiSCAPE™ wireless control modules allow an individual fixture to be managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The wiSCAPE modules provide on/off/dim control, external device input, alerts and metering.

**WIR-RMI-IO**

wiSCAPE Internal Module, 120-480V, 1000ft range (LOS), 3 Digital Inputs/1 Analog Input, 2 Outputs.

**WIR-RME-L**

wiSCAPE External Module, 120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

**SiteSync™<sup>1</sup>**

SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit [www.hubbellighting.com/products/sitesync](http://www.hubbellighting.com/products/sitesync) for more details.

**Pole Mounted**

**Round Pole-Mounted Occupancy Sensor up to 16'**

**SCL-R**

Round Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-R4<sup>2</sup>/277<sup>3</sup>/BL<sup>4</sup>

**Square Pole-Mounted Occupancy Sensor up to 16'**

**SCL-S**

Square Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for square pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-L/277<sup>3</sup>/BL<sup>4</sup>

**Round Pole-Mounted Occupancy Sensor 16' to 30'**

**SCH-R**

Round Pole-Mounted Occupancy Sensor: 16' to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-R4<sup>2</sup>/277<sup>3</sup>/BL<sup>4</sup>

**Square Pole-Mounted Occupancy Sensor 16' to 30'**

**SCH-S**

Square Pole-Mounted Occupancy Sensor: 16 to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/277<sup>3</sup>/BL<sup>4</sup>

**SCP**

The SCP is a photo-control with motion sensing accessory that mounts to the side of any new or existing 3"-5" round or square straight pole. The SCP enables any pole mounted luminaire in excess of 75 watts, to meet California Title 24 requirements with integral 20KV/10KA surge protection for added reliability and serviceability.

For more detail:

[http://www.aal.net/products/sensor\\_control\\_programmable](http://www.aal.net/products/sensor_control_programmable)

<sup>1</sup>PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [www.HubbellLighting.com/products/sitesync](http://www.HubbellLighting.com/products/sitesync) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only : ARX25/1/3K35UV/PS/US/SWP

SiteSync with Motion Control: ARX25/1/3K35UV/PS/US/SWPM-20F

MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

ARX25/1/3k35UV/PS/US/MOB - 1 to 30 min - 33%<sup>2</sup> or 50% - ?? / DBT



<sup>2</sup>Voltage, <sup>3</sup>Color, <sup>4</sup>Pole Diameter,

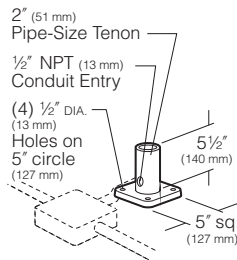
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**MOUNTING OPTIONS**

**Surface Mount Tenon**

**SMT/BL**

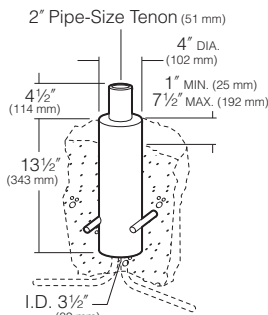
2" pipe-size tenon (2-3/8" O.D., 2" I.D.).  
Welded to a cast aluminum plate. Plate has four 1/2" mounting holes, and tenon has one 1/2" NPT for side conduit entry. Black finish.



**Stanchion Mount Tenon**

**SM2/BL**

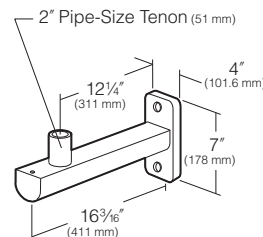
2" tenon. 4" O.D. cast low copper (<0.6% Cu) aluminum stanchion with 2" pipe-size tenon (2-3/8" O.D., 1-3/8" I.D.) for mounting a single fixture or multiple top-mounts. Black finish.



**Wall Mount Tenon**

**WM2/BL, WM2/DB, WM2/LG, WM2/SG, WM2/PS, WM2/WH**

2" pipe-size tenon (2-3/8" O.D., 2" I.D.).  
Welded to an extruded aluminum arm with a removable end cap for wiring access. Arm is welded to a cast aluminum plate with two 1/2" mounting holes.

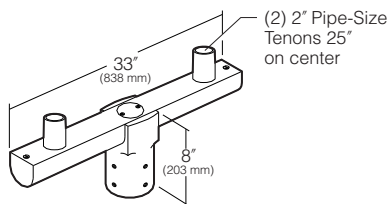


**Twin Mount Tenon**

**MTM-2B/BL, MTM-2B/DB, MTM-2B/LG, MTM-2B/SG, MTM-2B/PS, MTM-2B/WH**

Extruded aluminum support continuously welded to a heavy cast aluminum slipfitter hub which cradles the arm for strength. The slipfitter hub contains four recessed 3/8" stainless steel allen head set point screws for mounting to steel pole with steel 2" pipe size tenon (2-3/8" O.D. x 4-1/4"). Cast aluminum end caps and center cap provide access to field splice connections.

**CAUTION:** Approved for mounting to poles with steel tenons only.

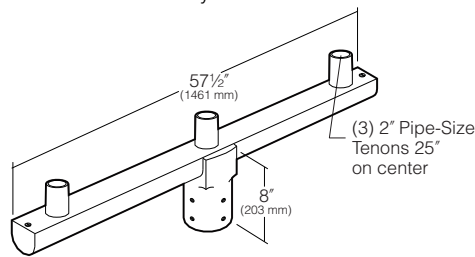


**Triple Mount Tenon**

**MTM-3E/BL, MTM-3E/DB, MTM-3E/LG, MTM-3E/SG, MTM-3E/PS, MTM-3E/WH**

Extruded aluminum support continuously welded to a heavy cast aluminum slipfitter hub which cradles the arm for strength. The slipfitter hub contains four recessed 3/8" stainless steel allen head set point screws for mounting to steel pole with steel 2" pipe size tenon (2-3/8" O.D. x 4-1/4"). Cast aluminum end caps and center cap provide access to field splice connections.

**CAUTION:** Approved for mounting to poles with steel tenons only.



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