



CONNECTION AND PROTECTION OF STREET LIGHTING EQUIPMENT



Thanks to their high efficiency and long operating life, LED luminaires are rapidly replacing existing luminaires in street lighting applications around the world. LEDs offer design freedom, durability and energy savings, but require additional surge protection against overvoltage from a variety of sources like lightning strikes and switching related voltage spikes.

A COMPREHENSIVE PORTFOLIO FOR STREET LIGHTING APPLICATIONS

For more than 60 years, TE Connectivity (TE) and its well-known GURO product line have supported utilities, city authorities and contractors with safe and reliable connection boxes and accessories for lighting poles for a variety of street lighting applications including:

- Public street lighting
- Private outdoor lights for parking lots and apartment buildings
- Industrial settings such as refineries and power plants
- Infrastructure, including harbors, airports and rail stations



EKM-2050



RELIABLE PERFORMANCE IN HARSH ENVIRONMENTS

Some of our products even withstand temporary flooding when installed at the riverside. We also produce fuse boxes including surge protection to reduce randomly occurring voltage spikes in the installation to a level that does not damage LED luminaires.

The TE Advantage

- As the leader in connectivity solutions, TE has experience in the most diverse industries across the globe, and provides customers with tried and proven technologies.
- Our world-renowned products deliver performance, reliability and long service life. You can be assured you'll retire before our products will.
- Our advanced materials science produces robust, highly durable products that withstand harsh environments and conditions.
- Our engineers and product teams provide the best expertise and support in the industry. We support your team from start to finish, offering everything from solutions to challenging design problems to hands-on field support for stress-free installation.



SIMPLIFIED SELECTION CRITERIA

Fuse boxes for lighting poles are customized based on specific installation requirements, offering consistent and reliable performance that meets available international standards and local requirements.

TE's street lighting product range consists of different housings equipped with terminals for underground cables, fuses, and other installation accessories such as timers, circuit breakers, residual current devices and surge protection devices. Choosing the correct combination of housings, terminals and fuses depends on:

- Pole dimensions
- Number and type of fuses
- Number of underground cables
- Surge protection required
- Cross section of cables



REFER TO STANDARD	PRODUCT NAME	SELECTION CRITERIA	NUMBER AND APPLICATION RANGE OF CABLES (CROSS SECTION MM ²)			NUMBER AND TYPE OF FUSE CARRIERS	AVAILABLE WITH SURGE ARRESTERS FOR LED LIGHTING	TYPE OF TERMINALS	INGRESS PROTECTION	DIMENSION OF POLE (MM)	
			ONE	TWO	THREE					DOOR	MIN. INSIDE DIAMETER
DIN VDE 0660-505, DIN 43628	EKM-2050	Medium poles, outdoor, medium cables	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16	2 / 3 x D01	1 / 2	Sliding terminals	IP54	85 x 270	89
	EKM-2051	Medium poles, outdoor, medium cables	3-5 x 2,5-16 3-4 x 2,5-25"	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16	2 / 3 x D01	1 / 2	Sliding terminals	IP54	85 x 350	89 (100)
	EKM-2020	Medium poles, medium cables	3-5 x 2,5-16	3-5 x 2,5-16	3-5 x 2,5-16	1 / 2 x D01	1	Mantle terminals	IP44	70 x 240	84
	EKM-2042	Slim poles, outdoor, medium cables	3-5 x 2,5-10	3-5 x 2,5-10	3-5 x 2,5-10	2 x D01	—	Sliding terminals	IP43/IP55	66 x 240	70
	EKM-2045	Bollards, slim poles, outdoor, small cables	3-4 x 1,5-4	3-4 x 1,5-4	—	1 x D01	—	Box terminals	IP55	58 x 150	59
—	EKM-2072	Medium poles, large cables	3-5 x 4-16 3-5 x 25-35	3-5 x 4-16 3-5 x 25-35	—	1 / 2 x DII	1	Mantle terminals	IP43	80 x 280	90
	EKM-2035	Large poles, large cables	3-4 x 4-50	3-4 x 4-50	3-4 x 4-35	1 / 2 x DII	1	Sliding terminals	IP43	90 x 300	110
	EKM-1261	Medium poles, outdoor, medium cables	3-5 x 6-16	3-5 x 6-16	3-5 x 6-10	1 / 2 x D01/DII	—	Mantle terminals	IP54	80 x 250	95 (100)
	EKM-1261	Submersible medium poles, outdoors	3-5-x 10	3-5-x 10	3-5-x 10	2 / 3 x D01	—	Mantle terminals	IP68	80 x 250	95
	EKM-1281	Large poles, outdoor large cables	3-5 x 16-35	3-5 x 16-35	3-4 x 16	2 / 3 x D01 1 / 2 x DII	—	Sliding terminals	IP54	100 x 300	120
	EKM-1281	Submersible large poles, outdoors	3-5 x 2,5-16 3-4 x 2,5-25	3-5 x 2,5-16 3-4 x 2,5-25	—	2 / 3 x D01	—	Sliding terminals	IP68	100 x 300	120
	EKM-1271	Medium poles, medium cables	3-5 x 6-16	3-5 x 6-16	—	1 x DII	—	Mantle terminals	IP43	80 x 210	90
EKM-1272	Medium poles, medium cables	3-5 x 6-16	3-5 x 6-16	—	2 x DII	—	Mantle terminals	IP43	80 x 250	90	

A SINGLE SOURCE FOR FUSE BOX TECHNOLOGY

In street lighting applications, surge protection and reliability are key to an efficient and high-performing network. TE serves its customers with technology that meets those needs while being easy to acquire, easy to install and designed to address the most challenging requirements.

UTILITY GRADE BOXES

EKM-1261, 2050* and 2051*

- Made of impact-resistant plastic material
- 4- or 5-pole installation blocks with sliding terminals for line cables
- 2- or 3-fuse carrier D01 with screw caps E14
- Pre-wired: bus connection (nickel-plated brass)
- Size (L x W x H): 257 x 82 x 63 mm
- Two load cables optionally installed downwards in parallel to line cables
- 2 load cable openings, standard with sleeve



EKM-1261



EKM-2050*



EKM-2051*

* surge arrester included in fuse box

GENERAL PURPOSE BOXES

EKM-2020*, 1271 and 1272

- For medium wire cross-sections (up to 16 mm²)
- Base made of impact-resistant plastic material
- Fuse carriers 1/2 D01, 1/2 DII
- 4 or 5 mantle terminals



EKM-2020*



EKM-1271



EKM-1272

* surge arrester included in fuse box



LARGE BOXES

EKM-1281, 2035* and 2072*

- For large wire cross-sections (up to 50 mm²)
- Made of impact-resistant plastic material
- Fuse carriers as locally required



EKM-1281



EKM-2035*



EKM-2072*

* surge arrester included in fuse box

SMALL BOXES

EKM-2042 and 2045

- Minimal size possible through new fuse system with standard D01 fuses
- Made of impact-resistant plastic material
- Pre-wired: bus connection (nickel-plated brass)
- Wire-sealable cover



EKM-2042



EKM-2045

TE Connectivity (NYSE: TEL) is a \$12 billion global technology leader. Our connectivity and sensor solutions are essential in today's increasingly connected world. We collaborate with engineers to transform their concepts into creations - redefining what's possible using intelligent, efficient and high-performing TE products and solutions proven in harsh environments. Our 72,000 people, including 7,000 design engineers, partner with customers in close to 150 countries across a wide range of industries. We believe EVERY CONNECTION COUNTS - www.TE.com.

- Mining
- Nuclear power plants
- OEMs
- Overhead distribution
- Petrochemical plants
- Railways
- Street lighting
- Substations
- Transmission lines
- Underground distribution
- Windfarms
- Solar
- Hydro-electric

WHEREVER ELECTRICITY FLOWS, YOU'LL FIND TE ENERGY



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