



I-TRON

I-TRON MICRO

MAIN CHARACTERISTICS

Applications	Street lighting.
Optic	<p>STE-M/S: Asymmetrical optic for suburban street lighting. STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting. STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts. SV: Asymmetrical optic for very narrow urban streets or highway entrance/exit turns. S05/S07: Asymmetrical optic for street, urban and green areas lighting. STA: Asymmetrical optic for wide urban road and cycle-path lighting. Colour temperature: 4000K, 3000K, 2700K, 2200K (others in option) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 185 lm/W @ 140mA, Tj=85°C, 4000K</p>
Insulation class	II, I
Protection degree	IP66/IP67 IK09 total
Dimensions	See the drawing
Weight	max 4 kg
Exposed surface	Side: 0.024m ² – Top: 0.09 m ² SCx: 0.033m ²
Mounting	Bracket / Post-top: Ø33mm ÷ Ø60mm Ø60mm ÷ Ø76mm(optional)
Tilt Angle	Post-top: -5°/+25° (step 5°) Bracket: -25°/+10° (step 5°)
LED Modules	Removable / Replaceable.
Gear tray	Removable. Gear tray integrated on luminaire body, separated from optic unit.
Operating temp.	-40°C / +50°C
Storage temp	-40°C / +80°C
Main reference standards	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3



ELECTRICAL CHARACTERISTICS

Rated voltage	220-240V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)
Mains connection	terminal block for cables max section 4mm ²
Surge protection	Up to 12kV With SPD: CL.II: 10kV / 10kV CM/DM CL.I: 12kV / 10kV CM/DM Without SPD: CL.II: 10kV / 6kV CM/DM CL.I: 10kV / 6kV CM/DM
SPD (optional)	12kV-10kA, type 2+3, with LED signal and thermo fuse to disconnect load at the end of life.
Control system (options)	<p>F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. DALI: Digital dimming interface DALI. NEMA: Socket 7 pin (ANSI C136.41). ZHAGA: Socket 4 pin (ZHAGA Book 18).</p>
Optical unit lifetime (Tq=25°C)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS

Fixing	Die-cast aluminum UNI EN1706 powder painted.
Lower frame	
Upper canopy	
Closure hook	AISI 301 stainless steel springs.
Optic	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness high transparency.
Cable gland	Plastic M20x1.5 - IP68
Gasket	Polyurethane
Colour	Graphite - Cod. 01



LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 4000K, lm)	RATED LED POWER* (Tj=85°C, W)
I-TRON MICRO 5P5 7040.060-1M	STE-M STU-M STW SV	60	1760	11.9	147.8	1847	9.4
I-TRON MICRO 5P5 7040.060-2M			3550	23	154.3	3694	18.8
I-TRON MICRO 5P5 7040.100-1M		100	2890	19.1	151.3	3023	16
I-TRON MICRO 5P5 7040.100-2M			5790	37.4	154.8	6046	31.9
I-TRON MICRO 5P5 7040.140-1M		140	4000	26.8	149.2	4150	22.7
I-TRON MICRO 5P5 7040.140-2M			7930	52.3	151.6	8299	45.4
I-TRON MICRO 5P5 7040.180-1M		180	5000	34.8	143.6	5227	29.6
I-TRON MICRO 5P5 7040.180-2M			9870	67.7	145.7	10453	59.1
I-TRON MICRO 5P5 7040.060-1M	S05 S07 STA STE-S STU-S	60	1730	11.9	145.3	1847	9.4
I-TRON MICRO 5P5 7040.060-2M			3460	23	150.4	3694	18.8
I-TRON MICRO 5P5 7040.100-1M		100	2830	19.1	148.1	3023	16
I-TRON MICRO 5P5 7040.100-2M			5650	37.4	151	6046	31.9
I-TRON MICRO 5P5 7040.140-1M		140	3900	26.8	145.5	4150	22.7
I-TRON MICRO 5P5 7040.140-2M			7760	52.3	148.3	8299	45.4
I-TRON MICRO 5P5 7040.180-1M		180	4870	34.8	139.9	5227	29.6
I-TRON MICRO 5P5 7040.180-2M			9670	67.7	142.8	10453	59.1

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±7%.

Power tolerance with ZHAGA version or power supply D4i/SR: ±10%.

ZHAGA/D4i version limitations: Operating temperature: Operating temperature: -40°C/+50°C up to 120mA; -40°C/+35°C up to 160mA.

The characteristics of the product listed above are subjected to change without notice.

LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 3000K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 3000K, lm)	RATED LED POWER* (Tj=85°C, W)
I-TRON MICRO 5P5 7030.060-1M	STE-M STU-M STW SV	60	1660	11.9	139.4	1736	9.4
I-TRON MICRO 5P5 7030.060-2M			3340	23	145.2	3472	18.8
I-TRON MICRO 5P5 7030.100-1M		100	2720	19.1	142.4	2842	16
I-TRON MICRO 5P5 7030.100-2M			5440	37.4	145.4	5683	31.9
I-TRON MICRO 5P5 7030.140-1M		140	3760	26.8	140.2	3901	22.7
I-TRON MICRO 5P5 7030.140-2M			7450	52.3	142.4	7801	45.4
I-TRON MICRO 5P5 7030.180-1M		180	4700	34.8	135	4913	29.6
I-TRON MICRO 5P5 7030.180-2M			9280	67.7	137	9826	59.1
I-TRON MICRO 5P5 7030.060-1M	S05 S07 STA STE-S STU-S	60	1630	11.9	136.9	1736	9.4
I-TRON MICRO 5P5 7030.060-2M			3260	23	141.7	3472	18.8
I-TRON MICRO 5P5 7030.100-1M		100	2660	19.1	139.2	2842	16
I-TRON MICRO 5P5 7030.100-2M			5310	37.4	141.9	5683	31.9
I-TRON MICRO 5P5 7030.140-1M		140	3670	26.8	136.9	3901	22.7
I-TRON MICRO 5P5 7030.140-2M			7290	52.3	139.3	7801	45.4
I-TRON MICRO 5P5 7030.180-1M		180	4580	34.8	131.6	4913	29.6
I-TRON MICRO 5P5 7030.180-2M			9090	67.7	134.2	9826	59.1

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*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

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LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 2700K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 2700K, lm)	RATED LED POWER* (Tj=85°C, W)	
I-TRON MICRO 5P5 7027.060-1M	STE-M STU-M STW SV	60	1590	11.9	133.6	1662	9.4	
I-TRON MICRO 5P5 7027.060-2M			3200	23	139.1	3324	18.8	
I-TRON MICRO 5P5 7027.100-1M		100	2600	19.1	136.1	2721	16	
I-TRON MICRO 5P5 7027.100-2M			5210	37.4	139.3	5441	31.9	
I-TRON MICRO 5P5 7027.140-1M		140	3600	26.8	134.3	3735	22.7	
I-TRON MICRO 5P5 7027.140-2M			7140	52.3	136.5	7469	45.4	
I-TRON MICRO 5P5 7027.180-1M		180	4500	34.8	129.3	4704	29.6	
I-TRON MICRO 5P5 7027.180-2M			8890	67.7	131.3	9408	59.1	
I-TRON MICRO 5P5 7027.060-1M		S05 S07 STA STE-S STU-S	60	1560	11.9	131	1662	9.4
I-TRON MICRO 5P5 7027.060-2M				3120	23	135.6	3324	18.8
I-TRON MICRO 5P5 7027.100-1M	100		2550	19.1	133.5	2721	16	
I-TRON MICRO 5P5 7027.100-2M			5090	37.4	136	5441	31.9	
I-TRON MICRO 5P5 7027.140-1M	140		3510	26.8	130.9	3735	22.7	
I-TRON MICRO 5P5 7027.140-2M			6980	52.3	133.4	7469	45.4	
I-TRON MICRO 5P5 7027.180-1M	180		4380	34.8	125.8	4704	29.6	
I-TRON MICRO 5P5 7027.180-2M			8700	67.7	128.5	9408	59.1	

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LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 2200K, lm)	RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX* (Tj=85°C, 2200K, lm)	RATED LED POWER* (Tj=85°C, W)
I-TRON MICRO 5P5 7022.060-1M	STE-M STU-M STW SV	60	1430	11.9	120.1	1496	9.4
I-TRON MICRO 5P5 7022.060-2M			2880	23	125.2	2992	18.8
I-TRON MICRO 5P5 7022.100-1M		100	2340	19.1	122.5	2449	16
I-TRON MICRO 5P5 7022.100-2M			4690	37.4	125.4	4897	31.9
I-TRON MICRO 5P5 7022.140-1M		140	3240	26.8	120.8	3361	22.7
I-TRON MICRO 5P5 7022.140-2M			6420	52.3	122.7	6722	45.4
I-TRON MICRO 5P5 7022.180-1M		180	4050	34.8	116.3	4233	29.6
I-TRON MICRO 5P5 7022.180-2M			8000	67.7	118.1	8467	59.1
I-TRON MICRO 5P5 7022.060-1M	S05 S07 STA STE-S STU-S	60	1400	11.9	117.6	1496	9.4
I-TRON MICRO 5P5 7022.060-2M			2810	23	122.1	2992	18.8
I-TRON MICRO 5P5 7022.100-1M		100	2290	19.1	119.8	2449	16
I-TRON MICRO 5P5 7022.100-2M			4580	37.4	122.4	4897	31.9
I-TRON MICRO 5P5 7022.140-1M		140	3160	26.8	117.9	3361	22.7
I-TRON MICRO 5P5 7022.140-2M			6290	52.3	120.2	6722	45.4
I-TRON MICRO 5P5 7022.180-1M		180	3940	34.8	113.2	4233	29.6
I-TRON MICRO 5P5 7022.180-2M			7830	67.7	115.6	8467	59.1

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