

Exterior Inground 400 Series

The Exterior[™] Inground 400 series is a range of uncomplicated, easyto-use color-changing LED luminaires. Perfect for installations with visible light sources, the Exterior Inground series combines the benefits of dynamic light and discreet installation. The recessed housing can be made to fit any type of surface with a trim ring available in beveled and flush-mount versions, for discreet installation both day and night.

The series is available in various configurations. The Exterior Inground 400^{TM} has a narrow beam. The Exterior Inground 410^{TM} blends the output of its RGBW LED sources in its lenses, delivering perfectly pre-mixed colors. And the Exterior Inground 420^{TM} gives variable color temperature white light from 2700 to 6500 K.

Bright, efficient in-ground fixture with full LED color mixing

Advanced optical performance with uniform distribution of light and color

Durable, low-maintenance construction

FEATURES

- · Choice of premixed RGBW, single-color RGBW or variable CT white LEDs
- · Built-in glare shield for high visual comfort
- Flush-mount and beveled trim ring options for installation in any groundwork
- Choice of five beam angle options
- Remote control and configuration via DMX and RDM
- Rugged drive-over IP67 housing

TECHNICAL SPECIFICATIONS

Physical

Fixture: Height: 315 mm (12.4 in.) Outer diameter at top of fixture: 310 mm (12.2 in.) Weight: 14.7 kg (32.5 lbs.)

Top ring (trim ring): Flush-mount top ring outer diameter: 329 mm (13.0 in.) Flush-mount top ring thickness: 7 mm (0.3 in.) Beveled top ring outer diameter: 340 mm (13.4 in.) Beveled top ring thickness: 5 mm (0.2 in.)

Installation Sleeve: Installation sleeve height: 400 mm (15.8 in.) Installation sleeve base flange external diameter: 416 mm (16.4 in.) Dynamic Effects

Dynamic Effects

All models Intensity: 0 - 100%

Exterior Inground 400 and 410 Color mixing: RGBW

Exterior I nground 420 Color temperature control: 2700 K - 6500 K



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Control and Programming

All models Control systems: DMX, RDM DMX addressing and fixture setup: RDM Fixture status monitoring: Multi-color status LED visible through top glass Firmware update: Serial upload via DMX link DMX compliance: USITT DMX512-A RDM compliance: ANSI/ESTA E1.20 Receiver: RS-485

Exterior Inground 400 and 410 DMX channels: 3/4

Exterior Inground 420 DMX channels: 2

Optics

All models LED manufacturer: Cree Minimum LED lifetime: 50 000 hours (to >70% luminous output)* *Figure obtained under manufacturer's test conditions

Exterior Inground 400 Light source: R, G, B and W single-color LEDs

Beam angle options No diffuser: 7° Narrow diffuser: 10.5° Medium diffuser: 20° Wide diffuser: 41° Asymmetric diffuser: 52° x 12° Directional (8°): 67° x 24° Directional (20°): 69° x 24°

Exterior Inground 410 Light source: RGBW quad-color LEDs

Beam angle options No diffuser: 21° Narrow diffuser: 22° Medium diffuser: 29° Wide diffuser: 50° Asymmetric diffuser: 59° x 25° Directional (8°): 76° x 33° Directional (20°): 79° x 33°

Exterior I nground 420 Light source: Warm (2700 K) and cool (6500 K) LEDs

Beam angle options No diffuser: 7 Narrow diffuser: 10.5° Medium diffuser: 20° Wide diffuser: 41° Asymmetric diffuser: 52° x 12° Directional (8°): 67° x 24° Directional (20°): 69° x 24°

Photometric Data

Exterior Inground 400 Maximum luminous output: 5700 lumens

Exterior Inground 410 Maximum luminous output: 4800 lumens

Exterior Inground 420 Maximum luminous output: 6600 lumens

Construction Fixture housing: Aluminum Front glass: 19 mm (0.8 in.) tempered glass (clear and anti-skid versions) Finish: Black powder coating over anodizing Trim ring (top ring): Stainless steel Installation method: In installation sleeve Color: Black Corrosion resistance: C5-M (very high corrosivity / marine, ISO 12944) Protection rating: IP67 Impact resistance: IK10 RoHS compliant Installation sleeve: Hot-dip galvanized steel Weight resistance (in installation sleeve with stable groundwork): 4000 kg (from vehicle tire for example)

Installation Installation method: Installation sleeve (ordered separately) Minimum distance to illuminated surfaces: 0.2 m (0.6 ft.) Connections Power connection: 1.8 m (5.9 ft.) cable tail without connector Data connection: 1.8 m (5.9 ft.) open ended 5-conductor combined input + output cable tail Power and data cable entries: IP68/69 cable glands Electrical

AC power: 100-277 V~ nominal, 50/60 Hz



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Power supply unit: Integrated, auto-sensing multi-voltage Power consumption, steady state, all LEDs at zero intensity: 11 W

Typical Power and Current 120 V, 60 Hz: 1.3 A, 142 W, PF 0.99 230 V, 50 Hz: 0.7 A, 142 W, PF 0.97 Measurements made at nominal voltage. Allow for a deviation of +/- 10 %:

Thermal

Cooling: Conduction / convection Maximum ambient temperature (Ta max.): 45° C (113° F) Minimum ambient temperature (Ta min.): -30° C (-4° F), power must be maintained below 0° C (32° F) Maximum surface temperature, steady state, at 40° C ambient: 90° C (194° F) Total heat dissipation (calculated, +/- 10%): 490 BTU/hr.

Approvals

EU safety: EN60598-2-5 (EN60598-1), EN60598-2-13, EN62471, EN62493 EU EN55015, EN61547, EN61000-3-2, EN6100-3-3, EN61000-4-2, EN6100-4-4, EN6100-4-5 US safety: ANSI/UL 1598 US EMC: 47 CFR Part 15 Class A Canadian safety: CSA C.22. 2 No. 250 Australia/NZ (pending): RCM

Accessories

Installation sleeve for Inground 400: P/N 91611841 Installation Lid for flush mount top ring installations: P/N 91616086 Installation Lid for beveled top ring installations: P/N 91616087 Please order Installation Sleeves separately from fixtures

Ordering Information

Inground 4xx, replacement (for existing Inground 200 installations): P/N 90507150HU Inground 4xx, replacement (for existing Inground 200 installations): P/N 90507150HU Inground 4xx, replacement (for existing Inground 200 installations), no top ring or top

glass: P/N 90507110HU Products are ordered pre-configured by selecting from a range of options - see elsewhere on website or contact your Martin™ supplier



