

Illuminators

As the source of light in a fiber optic system, the illuminator is critically important to the success of any fiber optic lighting installation. Fiberstars has developed the most powerful, dependable and effective fiber optic illuminators in the world—second to none in delivering high quality light output performance. Fiberstars offers a wide range of lamp wattages from 71W quartz halogen to 250W metal halide illuminators.



focus: Reliability, Quality



Project: Glowing Waterway
Location: Ruhr Valley, Unna, Germany
Designer: Leni Schwendinger Light Projects LTD.

ILLUMINATORS

description_benefits_dimensions



250 watt metal halide



601 ILLUMINATOR

Description:
Brightest damp location fiber optic lighting illuminator.

| | |
|---|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Excellent for side-emitting applications • U.L. listed for damp locations • Accommodates all stranded fiber optic cable – up to 300 fibers • 250 watt HID lamp rated for 2000 hours • Optional Features: Color Change, Synchronization, Variable Delay, and DMX | <p>Dimensions:</p> |
|---|---------------------------|

250 watt metal halide



602 ILLUMINATOR

Description:
Brightest exterior fiber optic lighting illuminator.

| | |
|--|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Excellent for side-emitting outdoor applications • U.L. listed for wet locations • Accommodates all stranded fiber optic cable – up to 300 fibers • 250 watt HID lamp rated for 2000 hours • Optional Features: Color Change, Synchronization, Variable Delay, and DMX | <p>Dimensions:</p> |
|--|---------------------------|

150 watt metal halide



405N ILLUMINATOR

Description:
Most popular illuminator. Offers two color temperatures.

| | |
|---|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Excellent for accent and downlighting applications • U.L. listed for damp locations • Accommodates all stranded fiber optic cable – up to 300 fibers • 150 watt HID lamp (either 3000°K or 4000°K) rated for 6000 hours • Optional Features: Color Change, Synchronization, Variable Delay, and DMX | <p>Dimensions:</p> |
|---|---------------------------|

150 watt metal halide



404N ILLUMINATOR

Description:
Popular exterior illuminator. Offers two color temperatures.

| | |
|---|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Excellent for landscape lighting applications • U.L. listed for wet locations • Accommodates all stranded fiber optic cable – up to 300 fibers • 150 watt HID lamp (either 3000°K or 4000°K) rated for 6000 hours • Optional Features: Color Change, Synchronization, Variable Delay, and DMX | <p>Dimensions:</p> |
|---|---------------------------|

183 watt quartz halogen



FS7L ILLUMINATOR

Description:
Brightest incandescent illuminator.

| | |
|---|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Small, compact, damp location illuminator. • Good for case lighting, point of purchase displays and other compact applications • U.L. listed for wet locations • 183W quartz halogen lamp, 3000°K, rated for 700 hours • Accommodates all stranded fiber optic cable - up to 300 fibers • "Instant-On," dimming, and synchronization | <p>Dimensions:</p> |
|---|---------------------------|

100 watt quartz halogen



FS13L ILLUMINATOR

Description:
Dual lamp port, compact and quiet incandescent illuminator

| | |
|--|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Outstanding for case lighting, point of purchase displays or other compact applications • U.L. listed for damp locations • Dual 100 watt quartz halogen lamps, 3000°K, rated for 2000 hours • Accommodates all stranded fiber optic cable – up to 300 fibers per port • "Instant-On" and dimming | <p>Dimensions:</p> |
|--|---------------------------|

ILLUMINATORS

description_benefits_dimensions



100 watt quartz halogen



FS12L ILLUMINATOR

Description:
Quiet, compact incandescent illuminator.

| | |
|---|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Excellent for case lighting, point of purchase displays or other compact applications • U.L. listed for damp locations • 100 watt quartz halogen lamp, 3000°K, rated for 2000 hrs • Accommodates all stranded fiber optic cable - up to 300 fibers • "Instant-On" and dimming | <p>Dimensions:</p> |
|---|---------------------------|

71 watt quartz halogen



FS11L ILLUMINATOR

Description:
Quiet, compact incandescent illuminator.

| | |
|---|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • Excellent for star ceilings and other end lit applications • U.L. listed for damp locations • 71 watt quartz halogen lamp, 3000°K, rated for 4000 hours • Accommodates all stranded fiber optic cable - up to 300 fibers • "Instant-On" and dimming | <p>Dimensions:</p> |
|---|---------------------------|

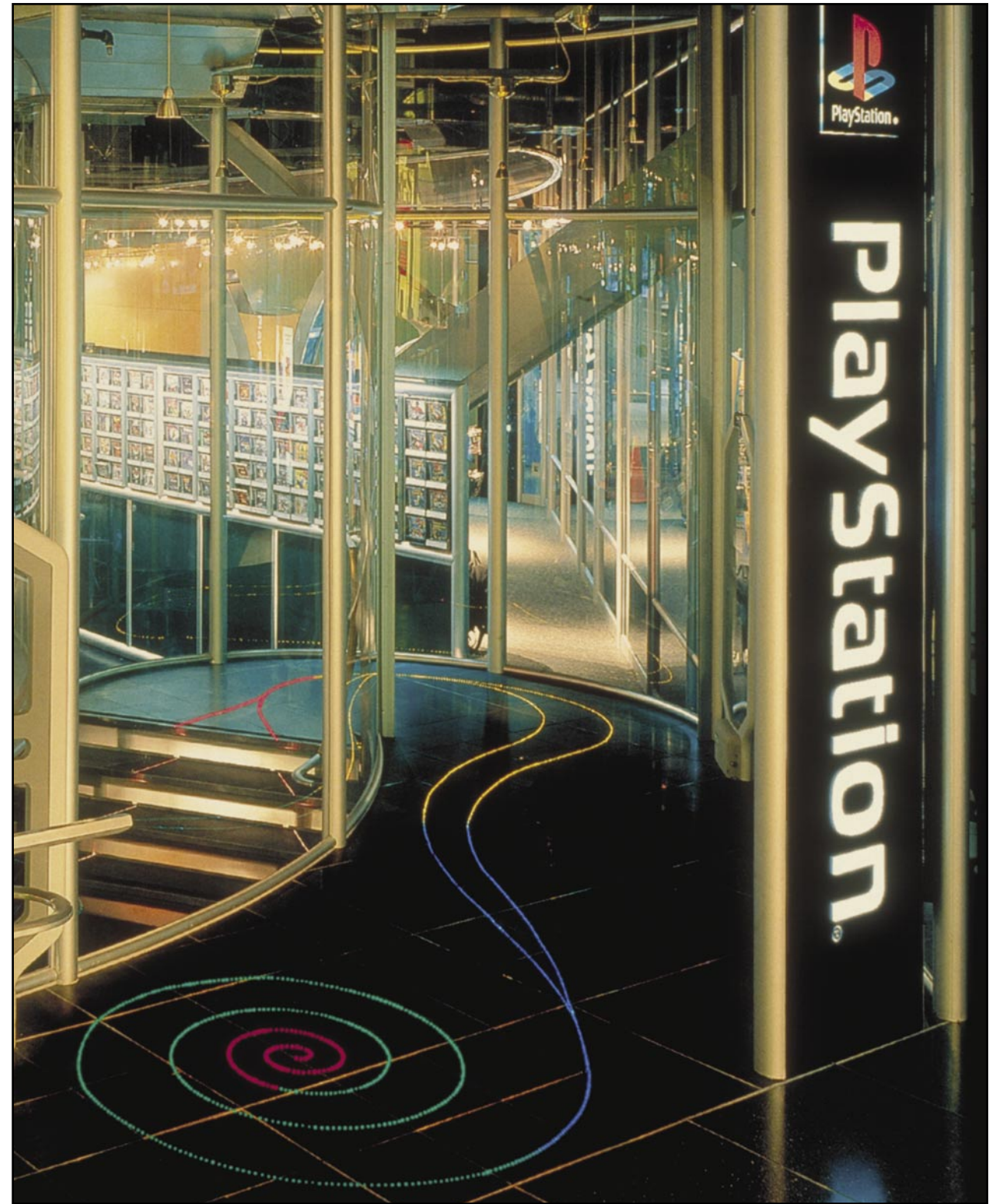
71 watt quartz halogen



FS1L ILLUMINATOR

Description:
Fanless, excellent for animated effects.

| | |
|--|---------------------------|
| <p>Benefits:</p> <ul style="list-style-type: none"> • U.L. listed for dry locations • High fiber capacity for animated special effects- up to 3200 of .75mm fiber • 71 watt quartz halogen lamp, 3200°K, rated for 4000 hours. • Instant on/off capacity • Can also use 1.0mm, 1.5mm and 2.0mm stranded fibers | <p>Dimensions:</p> |
|--|---------------------------|



Project: Playstation
Location: San Francisco, California

601 ILLUMINATOR

description_ordering_guide_specifications

250 watt metal halide



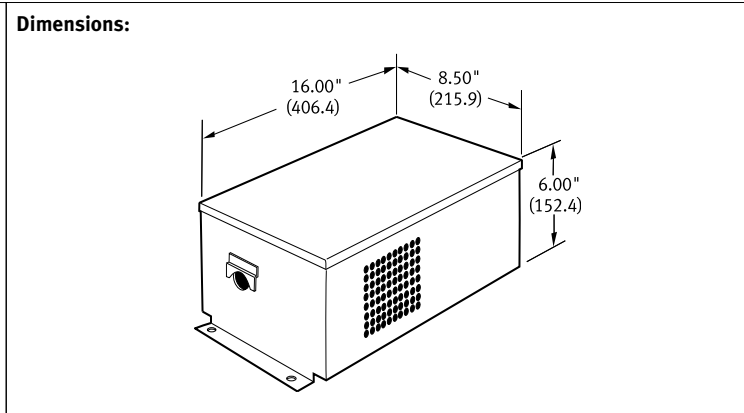
601 ILLUMINATOR

Description:

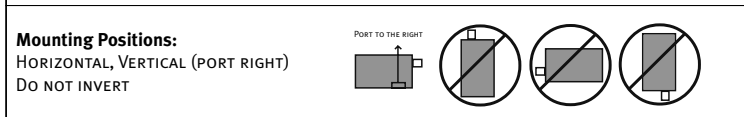
The 601 is one of Fiberstars' brightest illuminators. It uses a 250 watt HID lamp and is U.L. listed for damp locations. The 601 can be used in any outdoor applications for cool, brilliant illumination such as neon-like decorative accents, linear highlights or signage.

| | | | |
|-----------------------------------|--|--|--|
| illuminator ordering guide | Model: 601 | Color Wheel Options: NC NO COLOR C1 SINGLE COLOR C4/1* 4 COLORS, 1 RPM C4/3* 4 COLORS, 3.6 RPM C8/1* 8 COLORS, 1 RPM C8/3* 8 COLORS, 3.6 RPM SPW SPARKLE WHEEL (ADD TO C4 OR C8 ONLY) SPW/NC** SPARKLE WHEEL (W/ MOTOR, 400 FIBER (MAX.)) DWM/NC** DIMMING WHEEL, MECHANICAL (W/ MOTOR, NOT USED WITH COLOR WHEEL) * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. ** SPECIFY 1 RPM OR 3.6 RPM MOTOR | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY SM SYNC MASTER ILLUMINATOR, (C4 OR C8 ONLY) ONE SYNC MASTER ILLUMINATOR CONTROLS A NETWORK OF SYNC SLAVE ILLUMINATORS. SY SYNC SLAVE (C4 OR C8) CV CONTROLLER: VARIABLE DELAY ON COLOR, DELAYS COLOR CHANGES ON SYNC SLAVES WITH 3.6 RPM COLOR WHEEL MOTOR. ONE CONTROLLER PER NETWORK. DX DMX INTERFACE, HARDWIRE (C8 ONLY) 2 MOTOR CONTROL DXLR DMX INTERFACE, XLR 5-PIN CONN. (C8 ONLY) 2 MTR CNTL TBK T-BAR MOUNTING KIT HP HAMMETONE TWO COLOR PAINTED ENCLOSURE |
| | Voltage Options: 120 120V, 60 Hz 240 240v, 60 Hz 240I 240v, 50 Hz | | |

| | |
|--|---|
| Specifications: | |
| Maximum Exposure Rating: | DAMP LOCATION |
| Ventilation: | 172 CFM |
| Thermal Output: | 1024 BTU/HR |
| Acoustic Rating (dB): | 50 |
| Weight: | 14 LBS |
| Rec. Mounting Clearance: | 24" (609.6MM) |
| Operating Temperature: | 5° TO 25° C |
| Storage Temperature: | -20° TO 85° C |
| Continuous Load @ 120V: | 3 AMPS |
| Startup Load @ 120V: | 6 AMPS |
| Replacement Lamp: | HID-601 |
| Lamp Wattage: | 250W |
| Lamp Type: | HID METAL HALIDE |
| Lamp Life: | 2000 HOURS |
| Restrike Delay: | 3 MINUTES |
| Color Temperature: | 6400° K |
| CRI: | 70 |
| Materials: | ZINC PLATED STEEL, DIE CAST ZINC |
| Color Filter Options: | APPLE-GREEN, AMBER, AQUA, DARK BLUE, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, TEAL |
| *INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED. | |



Technical Remarks:
Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.



602 ILLUMINATOR

description_ordering_guide_specifications



250 watt metal halide



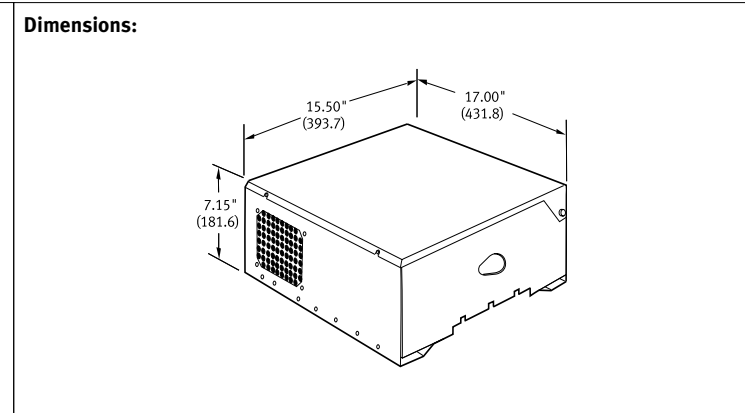
602 ILLUMINATOR

Description:

The 602 is one of Fiberstars' brightest illuminators. It uses a 250 watt HID lamp and is U.L. listed for wet locations. The 602 is optimal for use in side emitting outdoor applications such as neon-like decorative accents, linear highlights or signage.

| | | | |
|-----------------------------------|--|--|--|
| illuminator ordering guide | Model: 602 | Color Wheel Options: NC NO COLOR C1 SINGLE COLOR C4/1* 4 COLORS, 1 RPM C4/3* 4 COLORS, 3.6 RPM C8/1* 8 COLORS, 1 RPM C8/3* 8 COLORS, 3.6 RPM SPW SPARKLE WHEEL (ADD TO C4 OR C8 ONLY) SPW/NC** SPARKLE WHEEL (W/ MOTOR, 400 FIBER (MAX.)) DWM/NC** DIMMING WHEEL, MECHANICAL (W/ MOTOR, NOT USED WITH COLOR WHEEL) * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. ** SPECIFY 1 RPM OR 3.6 RPM MOTOR | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY SM SYNC MASTER ILLUMINATOR, (C4 OR C8 ONLY) ONE SYNC MASTER ILLUMINATOR CONTROLS A NETWORK OF SYNC SLAVE ILLUMINATORS. SY SYNC SLAVE (C4 OR C8) CV CONTROLLER: VARIABLE DELAY ON COLOR, DELAYS COLOR CHANGES ON SYNC SLAVES WITH 3.6 RPM COLOR WHEEL MOTOR. ONE CONTROLLER PER NETWORK. DX DMX INTERFACE, HARDWIRE (C8 ONLY) 2 MOTOR CONTROL DXLR DMX INTERFACE, XLR 5-PIN CONN. (C8 ONLY) 2 MTR CNTL |
| | Voltage Options: 120 120V, 60 Hz 240 240v, 60 Hz 240I 240v, 50 Hz | | |

| | |
|--|---|
| Specifications: | |
| Maximum Exposure Rating: | WET LOCATION |
| Ventilation: | 172 CFM |
| Thermal Output: | 1024 BTU/HR |
| Acoustic Rating (dB): | 50 |
| Weight: | 29 LBS |
| Rec. Mounting Clearance: | 24" (609.9MM) |
| Operating Temperature: | 5° TO 25° C |
| Storage Temperature: | -20° TO 85° C |
| Continuous Load @ 120V: | 3 AMPS |
| Startup Load @ 120V: | 6 AMPS |
| Replacement Lamp: | HID-601 |
| Lamp Wattage: | 250W |
| Lamp Type: | HID METAL HALIDE |
| Lamp Life: | 2000 HOURS |
| Restrike Delay: | 3 MINUTES |
| Color Temperature: | 6400° K |
| CRI: | 70 |
| Materials: | ZINC PLATED STEEL, DIE CAST ZINC |
| Color Filter Options: | APPLE-GREEN, AMBER, AQUA, DARK BLUE, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, TEAL |
| *INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED. | |



Technical Remarks:
Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.



405N ILLUMINATOR

description_ordering_guide_specifications

150 watt metal halide

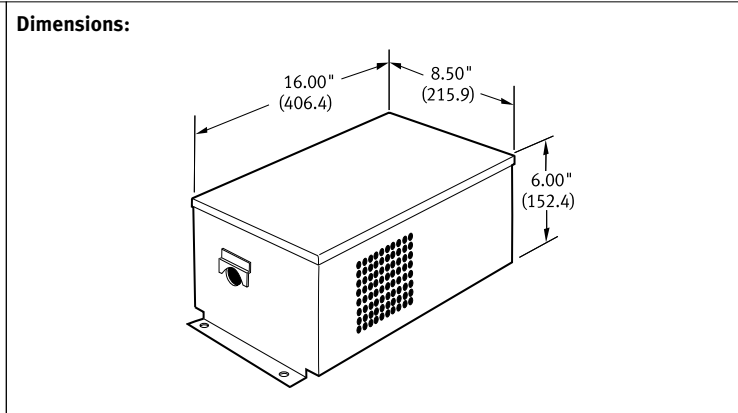


405N ILLUMINATOR

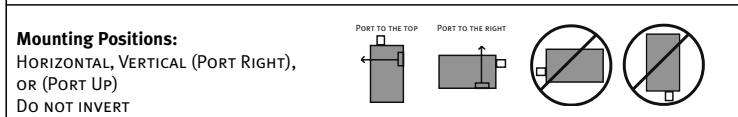
Description:
The 405N is Fiberstars' most popular illuminator. Housed in a compact, easy access enclosure, this illuminator is U.L. listed for damp locations. The 405N utilizes a 150 watt metal halide lamp and patented reflector combination to produce brilliant light. Available in two color temperatures, this illuminator can be used in recessed downlighting, linear highlights, display lighting, step lighting, decorative signage, starlit ceilings, soffit cove and glass block lighting applications.

| | | | |
|-----------------------------------|---|--|--|
| illuminator ordering guide | Model: 405N/30 3000° K 405N/40 4000° K 405N/30MC* 3000° K 405N/42MC* 4200° K 405N/30MR 3000° K 405N/40MR 4000° K <small>*USES PHILIPS MASTER COLOR LAMP</small> | Color Wheel Options: NC No COLOR C1 SINGLE COLOR C4/1* 4 COLORS, 1 RPM C4/3* 4 COLORS, 3.6 RPM C8/1* 8 COLORS, 1 RPM C8/3* 8 COLORS, 3.6 RPM SPW SPARKLE WHEEL (ADD TO C4 OR C8 ONLY) SPW/NC** SPARKLE WHEEL (W/ MOTOR, 400 FIBER (MAX.)) DWM/NC** DIMMING WHEEL, MECHANICAL (W/ MOTOR, NOT USED W/COLOR WHEEL) | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY SM SYNC MASTER ILLUMINATOR, (C4 OR C8 ONLY) ONE SYNC MASTER ILLUMINATOR CONTROLS A NETWORK OF SYNC SLAVE ILLUMINATORS. SY SYNC SLAVE (C4 OR C8) CV CONTROLLER: VARIABLE DELAY ON COLOR, DELAYS COLOR CHANGES ON SYNC SLAVES WITH 3.6 RPM COLOR WHEEL MOTOR. ONE CONTROLLER PER NETWORK. DX DMX INTERFACE, HARDWIRE (C8 ONLY) 2 MOTOR CONTROL DXLR DMX INTERFACE, XLR 5-PIN CONN. (C8 ONLY) 2 MTR CNTL TBK T-BAR MOUNTING KIT HP HAMMETONE TWO COLOR PAINTED ENCLOSURE |
| | Voltage Options: 120 120V, 60 Hz 240 240V, 60 Hz 277 277V, 60 Hz 220I 220V, 50 Hz 230I 230V, 50 Hz 240I 240V, 50 Hz 250I 250V, 50 Hz | * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. ** SPECIFY 1 RPM OR 3.6 RPM MOTOR | |

| |
|---|
| Specifications: Maximum Exposure Rating: DAMP LOCATION Other Ratings: NYC CALENDAR #39671 Ventilation: 115 CFM Thermal Output: 683 BTU/HR Acoustic Rating (dB): 47 Weight: 23 LBS Rec. Mounting Clearance: 24" (609.6MM) Operating Temperature: -10° TO 40° C Storage Temperature: -30° TO 60° C Continuous Load @ 120V: 1.8 AMPS Startup Load @ 120V: 4 AMPS Replacement Lamp: 3000°: HID-430, HID-430MR, HID-430MC 4000°: HID-440, HID-440MR, HID-440MC Lamp Wattage: 150W Lamp Type: HID METAL HALIDE Lamp Life: 6000 HOURS Restrike Delay: 3 MINUTES Color Temperature: 3000° - 4000° K CRI: 80 Materials: ZINC PLATED STEEL, DIE CAST ZINC Color Filter Options: APPLE-GREEN, AMBER, AQUA, DARK BLUE, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, TEAL *INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED. |
|---|



Technical Remarks:
Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.



404N ILLUMINATOR

description_ordering_guide_specifications



150 watt metal halide

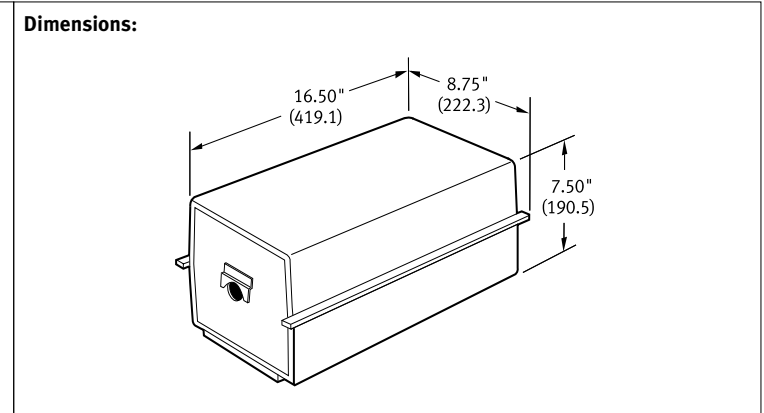


404N ILLUMINATOR

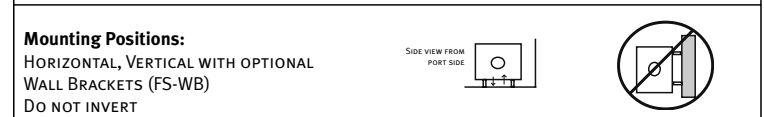
Description:
Manufactured with a durable polycarbonate case, the 404N illuminator is U.L. listed for wet locations. A powerful 150 watt metal halide lamp, available in two different color temperatures, utilizes Fiberstars' designed and patented reflector to deliver maximum light to the fiber. The 404N can be used in any outdoor application for non-electric illumination. This includes signage, water features, decorative landscaping, building accents, architectural features such as domes, soffits, steps, pavers and downlighting.

| | | | |
|-----------------------------------|---|--|--|
| illuminator ordering guide | Model: 404N/30 3000° K 404N/40 4000° K 404N/30MC* 3000° K 404N/42MC* 4200° K 404N/30MR 3000° K 404N/40MR 4000° K <small>*USES PHILIPS MASTER COLOR LAMP</small> | Color Wheel Options: NC No COLOR C1 SINGLE COLOR C4/1* 4 COLORS, 1 RPM C4/3* 4 COLORS, 3.6 RPM C8/1* 8 COLORS, 1 RPM C8/3* 8 COLORS, 3.6 RPM SPW SPARKLE WHEEL (ADD TO C4 OR C8 ONLY) SPW/NC** SPARKLE WHEEL (W/ MOTOR, 400 FIBER (MAX.)) DWM/NC** DIMMING WHEEL, MECHANICAL (W/ MOTOR, NOT USED W/COLOR WHEEL) | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY SM SYNC MASTER ILLUMINATOR, (C4 OR C8 ONLY) ONE SYNC MASTER ILLUMINATOR CONTROLS A NETWORK OF SYNC SLAVE ILLUMINATORS. SY SYNC SLAVE (C4 OR C8) CV CONTROLLER: VARIABLE DELAY ON COLOR, DELAYS COLOR CHANGES ON SYNC SLAVES WITH 3.6 RPM COLOR WHEEL MOTOR. ONE CONTROLLER PER NETWORK. DX DMX INTERFACE, HARDWIRE (C8 ONLY) 2 MOTOR CONTROL DXLR DMX INTERFACE, XLR 5-PIN CONN. (C8 ONLY) 2 MTR CNTL WB WALL MOUNTING BRACKETS |
| | Voltage Options: 120 120V, 60 Hz 240 240V, 60 Hz 277 277V, 60 Hz 220I 220V, 50 Hz 230I 230V, 50 Hz 240I 240V, 50 Hz | * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. ** SPECIFY 1 RPM OR 3.6 RPM MOTOR | |

| |
|--|
| Specifications: Maximum Exposure Rating: WET LOCATION Other Ratings: NYC CALENDAR #39671 Ventilation: 115 CFM Thermal Output: 683 BTU/HR Acoustic Rating (dB): 46 Weight: 18 LBS Rec. Mounting Clearance: 24" (609.6MM) Operating Temperature: -10° TO 25° C Storage Temperature: -30° TO 60° C Continuous Load @ 120V: 1.8 AMPS Startup Load @ 120V: 4 AMPS Replacement Lamp: 3000°: HID-430, HID-430MR, HID-430MC 4000°: HID-440, HID-440MR, HID-440MC Lamp Wattage: 150W Lamp Type: HID METAL HALIDE Lamp Life: 6000 HOURS Restrike Delay: 3 MINUTES Color Temperature: 3000° - 4000° K CRI: 80 Materials: EXTERIOR GRADE POLYCARBONATE, ALUMINUM Color Filter Options: APPLE-GREEN, AMBER, AQUA, DARK BLUE, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, TEAL *INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED. |
|--|



Technical Remarks:
Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.



FS7L ILLUMINATOR

description_ordering guide_specifications

183 watt quartz halogen

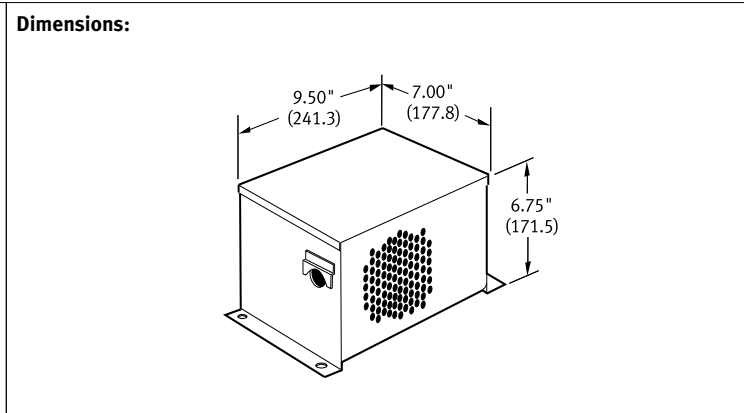


FS7L ILLUMINATOR

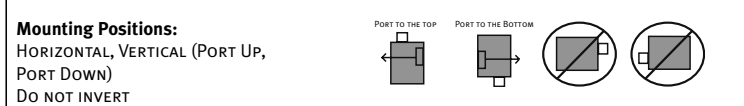
Description:
The FS7L is Fiberstars' interior, 183 quartz halogen illuminator. This illuminator is listed for damp locations. The FS7L produces instant-on incandescent illumination for interior applications. Where short cycle, dimming or frequent switching is desired, the FS7L can be used for special effects and residential lighting applications. This illuminator also has the options of color and sparkle wheels, color wheel synchronization and an optional dimmer ready. The FS7L can be ordered as dimmable ready to work with a standard rheostat electronic dimmer (DR) or an architectural/theatrical dimming system (DRC).

| | | | |
|-----------------------------------|--|---|---|
| illuminator ordering guide | Model: FS7L | Color Wheel Options: NC NO COLOR C1 SINGLE COLOR C4/1* 4 COLORS, 1 RPM C4/3* 4 COLORS, 3.6 RPM C8/1* 8 COLORS, 1 RPM C8/3* 8 COLORS, 3.6 RPM SPW SPARKLE WHEEL (ADD TO C4 OR C8 ONLY) SPW/NC** SPARKLE WHEEL (W/ MOTOR, 400 FIBER (MAX.)) DWM/NC** DIMMING WHEEL, MECHANICAL (W/ MOTOR, NOT USED W/COLOR WHEEL) * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. ** SPECIFY 1 RPM OR 3.6 RPM MOTOR | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY SM SYNC MASTER ILLUMINATOR, (C4 OR C8 ONLY) ONE SYNC MASTER ILLUMINATOR CONTROLS A NETWORK OF SYNC SLAVE ILLUMINATORS. SY SYNC SLAVE (C4 OR C8) CV CONTROLLER: VARIABLE DELAY ON COLOR, DELAYS COLOR CHANGES ON SYNC SLAVES WITH 3.6 RPM COLOR WHEEL MOTOR. ONE CONTROLLER PER NETWORK. PS PLUG AND SWITCHES (NOT AVAILABLE W/ DR OR DRC OPTIONS) TBK T-BAR MOUNTING KIT DR DIMMABLE READY (STANDARD ELECTRONIC RHEOSTAT DIMMER) DRC DIMMABLE READY (ARCHITECTURAL/THEATRICAL ELECTRONIC DIMMER) |
| | Voltage Options: 120 120V, 60 Hz 220I 220V, 50 Hz 230I 230V, 50 Hz 240I 240V, 50 Hz | | |

| | |
|---------------------------------|---|
| Specifications: | |
| Maximum Exposure Rating: | DAMP LOCATION |
| Ventilation: | 50 CFM |
| Thermal Output: | 625 BTU/HR |
| Acoustic Rating (dB): | 42 |
| Weight: | 5 LBS |
| Rec. Mounting Clearance: | 24" (609.6MM) |
| Operating Temperature: | -10° TO 25° C |
| Storage Temperature: | -30° TO 60° C |
| Continuous Load @ 120V: | 2 AMPS |
| Startup Load @ 120V: | 2 AMPS |
| Replacement Lamp: | HI-110 |
| Lamp Wattage: | 183W |
| Lamp Type: | QUARTZ HALOGEN |
| Lamp Life: | 700 HOURS |
| Restrike Delay: | 0 MINUTES |
| Color Temperature: | 3000° K |
| CRI: | 90 |
| Materials: | ALUMINUM, DIE CAST ZINC |
| Color Filter Options: | APPLE-GREEN, AMBER, AQUA, DARK BLUE, DARK RED*, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, SALMON*, TEAL |



Technical Remarks:
Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.



*INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED.

FS13L ILLUMINATOR

description_ordering guide_specifications



100 watt quartz halogen

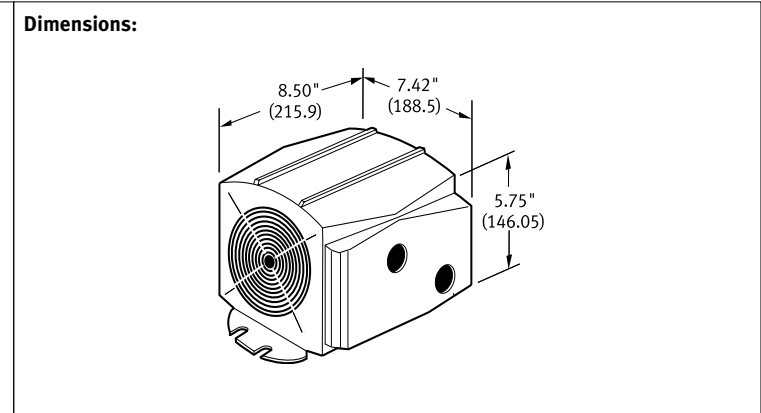


FS13L ILLUMINATOR

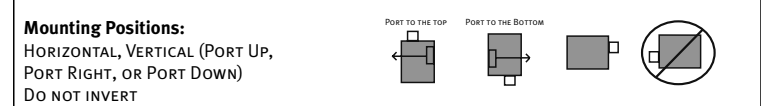
Description:
A compact, quiet light source, the FS13L is U.L. listed for damp locations. It uses two 100 watt quartz halogen lamps with 3000° Kelvin color temperature which can be switched on separately and two ports which allow for twice the fiber capacity of other illuminators. The FS13L illuminator was designed specifically for use in display cases, point of purchase displays or other compact applications. It also works well for end-lit signs that create or highlight letters or designs with multiple points of light. The FS13L can be ordered dimmable ready.

| | | | |
|-----------------------------------|--|--|--|
| illuminator ordering guide | Model: FS13L | Color Wheel Options: NC NO COLOR C1 SINGLE COLOR * SINGLE COLOR(S) MUST BE SPECIFIED AT TIME OF ORDER. | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY PS PLUG AND SWITCHES (NOT AVAILABLE WITH DR OR DRC OPTIONS) TBK T-BAR MOUNTING KIT DR DIMMABLE READY (STANDARD ELECTRONIC RHEOSTAT DIMMER) DRC DIMMABLE READY (ARCHITECTURAL/THEATRICAL ELECTRONIC DIMMER) VK VENTILATION KIT |
| | Voltage Options: 120 120V, 60 Hz 220I 220V, 50 Hz 230I 230V, 50 Hz 240I 240V, 50 Hz | | |

| | |
|---------------------------------|---|
| Specifications: | |
| Maximum Exposure Rating: | DAMP LOCATION |
| Ventilation: | 95 CFM |
| Thermal Output: | 770 BTU/HR |
| Acoustic Rating (dB): | 44 |
| Weight: | 4.2 LBS |
| Rec. Mounting Clearance: | 24" (609.6MM) |
| Operating Temperature: | 5° TO 30° C |
| Storage Temperature: | -20° TO 85° C |
| Continuous Load @ 120V: | 2 AMPS |
| Startup Load @ 120V: | 2 AMPS |
| Replacement Lamp: | (2) HI-100 |
| Lamp Wattage: | 100W |
| Lamp Type: | QUARTZ HALOGEN |
| Lamp Life: | 2000 HOURS |
| Restrike Delay: | 0 MINUTES |
| Color Temperature: | 3000° K |
| CRI: | 90 |
| Materials: | POLYCARBONATE, 2 DIE CAST ZINC PORTS |
| COLOR FILTER OPTIONS: | APPLE-GREEN, AMBER, AQUA, DARK BLUE, DARK RED*, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, SALMON*, TEAL |



Technical Remarks:
Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.



*INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED.

FS12L ILLUMINATOR

description_ordering guide_specifications

100 watt quartz halogen



FS12L ILLUMINATOR

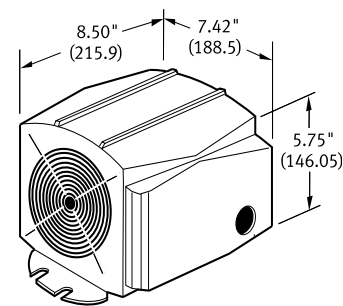
Description:

A compact, quiet light source, the FS12L is U.L. listed for damp locations. It uses a 100 watt quartz halogen lamp with 3000° Kelvin color temperature. The FS12L illuminator was designed specifically for use in display cases, point of purchase displays or other compact applications. It also works well for end-lit signs that create or highlight letters or designs with multiple points of light. The FS12L can be ordered dimmable ready.

| | | | |
|-----------------------------------|--|---|---|
| illuminator ordering guide | Model: FS12L | Color Wheel Options: NC No COLOR C1 SINGLE COLOR C4/1* 4 COLORS, 1 RPM C4/3* 4 COLORS, 3.6 RPM C8/1* 8 COLORS, 1 RPM C8/3* 8 COLORS, 3.6 RPM SPW SPARKLE WHEEL (ADD TO C4 OR C8 ONLY) SPW/NC** SPARKLE WHEEL (W/ MOTOR, 400 FIBER (MAX.)) DWM/NC** DIMMING WHEEL, MECHANICAL (W/ MOTOR, NOT USED W/COLOR WHEEL) | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY PS PLUG AND SWITCHES (NOT AVAILABLE WITH DR OR DRC OPTIONS) TBK T-BAR MOUNTING KIT DR DIMMABLE READY (STANDARD ELECTRONIC RHEOSTAT DIMMER) DRC DIMMABLE READY (ARCHITECTURAL/THEATRICAL ELECTRONIC DIMMER) VK VENTILATION KIT |
| | Voltage Options: 120 120V, 60 Hz 220I 220V, 50 Hz 230I 230V, 50 Hz 240I 240V, 50 Hz | * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. ** SPECIFY 1 RPM OR 3.6 RPM MOTOR | |

| | |
|---------------------------------|---|
| Specifications: | |
| Maximum Exposure Rating: | DAMP LOCATION |
| Ventilation: | 95 CFM |
| Thermal Output: | 385 BTU/HR |
| Acoustic Rating (dB): | 44 |
| Weight: | 3.8 LBS |
| Rec. Mounting Clearance: | 24" (609.6MM) |
| Operating Temperature: | 0° TO 30° C |
| Storage Temperature: | -20° TO 85° C |
| Continuous Load @ 120V: | 1 AMP |
| Startup Load @ 120V: | 1 AMP |
| Replacement Lamp: | HI-100 |
| Lamp Wattage: | 100W |
| Lamp Type: | QUARTZ HALOGEN |
| Lamp Life: | 2000 HOURS |
| Restrike Delay: | 0 MINUTES |
| Color Temperature: | 3000° K |
| CRI: | 90 |
| Materials: | POLYCARBONATE, DIE CAST ZINC PORT |
| Color Filter Options: | APPLE-GREEN, AMBER, AQUA, DARK BLUE, DARK RED*, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, SALMON*, TEAL |

Dimensions:

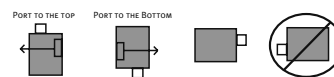


Technical Remarks:

Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.

Mounting Positions:

HORIZONTAL, VERTICAL (PORT UP, PORT RIGHT, OR PORT DOWN)
DO NOT INVERT



*INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED.

FS11L ILLUMINATOR

description_ordering guide_specifications



71 watt quartz halogen



FS11L ILLUMINATOR

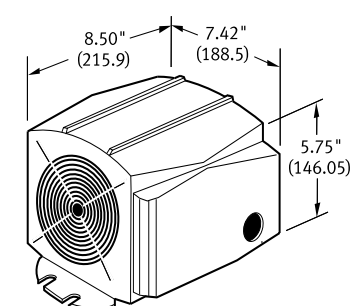
Description:

A compact, quiet light source, the FS11L is U.L. listed for damp locations. It uses a 71 watt quartz halogen lamp with 3000° Kelvin color temperature. The FS11L illuminator was designed specifically for use in display cases, point of purchase displays or other compact applications. It also works well for end-lit signs that create or highlight letters or designs with multiple points of light. The FS11L can be ordered dimmable ready.

| | | | |
|-----------------------------------|--|---|---|
| illuminator ordering guide | Model: FS11L | Color Wheel Options: NC No COLOR C1 SINGLE COLOR C4/1* 4 COLORS, 1 RPM C4/3* 4 COLORS, 3.6 RPM C8/1* 8 COLORS, 1 RPM C8/3* 8 COLORS, 3.6 RPM SPW SPARKLE WHEEL (ADD TO C4 OR C8 ONLY) SPW/NC** SPARKLE WHEEL (W/ MOTOR, 400 FIBER (MAX.)) DWM/NC** DIMMING WHEEL, MECHANICAL (W/ MOTOR, NOT USED W/COLOR WHEEL) | Options: 003 STANDARD 300 FIBER CAPACITY 004 SPECIAL 400 FIBER CAPACITY, WHITE LIGHT ONLY 005 SPECIAL 450 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY 006 SPECIAL 600 FIBER CAPACITY, STAR CEILING, WHITE LIGHT ONLY PS PLUG AND SWITCHES (NOT AVAILABLE WITH DR OR DRC OPTIONS) TBK T-BAR MOUNTING KIT DR DIMMABLE READY (STANDARD ELECTRONIC RHEOSTAT DIMMER) DRC DIMMABLE READY (ARCHITECTURAL/THEATRICAL ELECTRONIC DIMMER) VK VENTILATION KIT |
| | Voltage Options: 120 120V, 60 Hz 220I 220V, 50 Hz 230I 230V, 50 Hz 240I 240V, 50 Hz | * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. ** SPECIFY 1 RPM OR 3.6 RPM MOTOR | |

| | |
|---------------------------------|---|
| Specifications: | |
| Maximum Exposure Rating: | DAMP LOCATION |
| Ventilation: | 95 CFM |
| Thermal Output: | 276 BTU/HR |
| Acoustic Rating (dB): | 40 |
| Weight: | 4 LBS |
| Rec. Mounting Clearance: | 24" (609.6MM) |
| Operating Temperature: | 0° TO 25° C |
| Storage Temperature: | -20° TO 85° C |
| Continuous Load @ 120V: | 0.8 AMPS |
| Startup Load @ 120V: | 0.8 AMPS |
| Replacement Lamp: | HI-075 |
| Lamp Wattage: | 71W |
| Lamp Type: | QUARTZ HALOGEN |
| Lamp Life: | 4000 HOURS |
| Restrike Delay: | 0 MINUTES |
| Color Temperature: | 3000° K |
| CRI: | 90 |
| Materials: | POLYCARBONATE DIE CAST ZINC PORT |
| Color Filter Options: | APPLE-GREEN, AMBER, AQUA, DARK BLUE, DARK RED*, MAGENTA, INCANDESCENT, MEDIUM BLUE, GREEN, NO COLOR, ORANGE, PURPLE*, SALMON*, TEAL |

Dimensions:

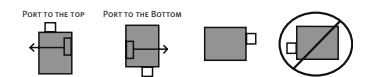


Technical Remarks:

Add 5" (125mm) to length dimension in order to accommodate the fiber bending radius.

Mounting Positions:

HORIZONTAL, VERTICAL (PORT UP, PORT RIGHT, OR PORT DOWN)
DO NOT INVERT



*INTENSITY OF LIGHT OUTPUT IS GREATLY REDUCED.

FS1L ILLUMINATOR

description_ordering guide_specifications



71 watt quartz halogen



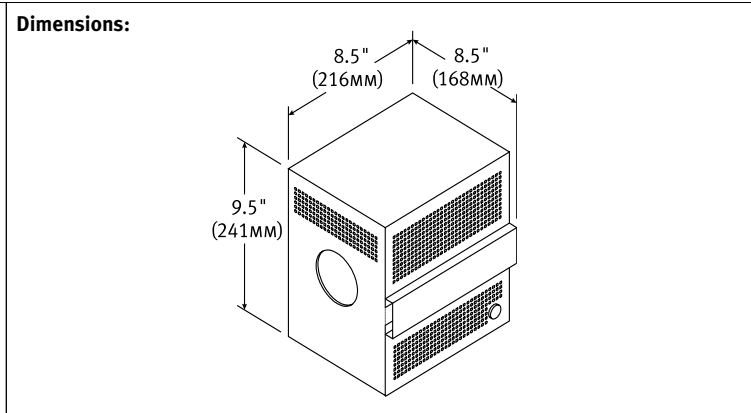
FS1L ILLUMINATOR

Description:
 The FS1L is a small, fanless light source primarily used for end emitting points of light for animated signs and special effects. It uses a 71 watt quartz halogen lamp with 3200° Kelvin color temperature and is U.L. listed for dry locations. The FS1L has a high fiber capacity of up to 3200 of 0.75mm fibers.

| | | | |
|-----------------------------------|--|--|---|
| illuminator ordering guide | Model: FS1L | Color Wheel Options: CCW* CUSTOM COLOR WHEEL CSW CUSTOM SPARKLE WHEEL * COLORS AND SEQUENCES MUST BE SPECIFIED AT TIME OF ORDER. | Options: CUST 3200 FIBER CAPACITY – MUST BE PRE-PORTED BY FACTORY ANI CUSTOM ANIMATION – CONSULT FACTORY |
| | Voltage Options: 120 120V, 60 Hz | | |

Specifications:

| | |
|---------------------------------|-----------------------|
| Maximum Exposure Rating: | DRY LOCATION |
| Ventilation: | FANLESS |
| Thermal Output: | 275 BTU/HR |
| Acoustic Rating (dB): | 15 |
| Weight: | 5 LBS |
| Rec. Mounting Clearance: | 12" MINIMUM (304.8MM) |
| Operating Temperature: | 5° TO 25° C |
| Storage Temperature: | 5° TO 70° C |
| Continuous Load @ 120V: | 0.75 AMPS |
| Startup Load @ 120V: | 0.75 AMPS |
| Replacement Lamp: | HI-071 |
| Lamp Wattage: | 71W |
| Lamp Type: | QUARTZ HALOGEN |
| Lamp Life: | 4000 HOURS |
| Restrike Delay: | 0 MINUTES |
| Color Temperature: | 3200° K |
| CRI: | 95 |
| Materials: | ALUMINUM |
| Color Filter Options: | CONSULT FACTORY |



Technical Remarks:
 Unit is convection cooled (fanless) and extremely quiet. Add 10" (250mm) to length dimension in order to accommodate the fiber bending radius. Fiber must be factory ported.



Project: IMAX Cinema
Location: Berlin, Germany
Designer: Architect Renzo Piano, Berlin, Germany and Conception and Design Hofer, Berlin, Germany

Fiber Optic Cable

Fiberstars' patented BritePak® side-lit and FiberSpots® end lit fiber optic products come in a variety of sizes to provide the shape and light output for every application.



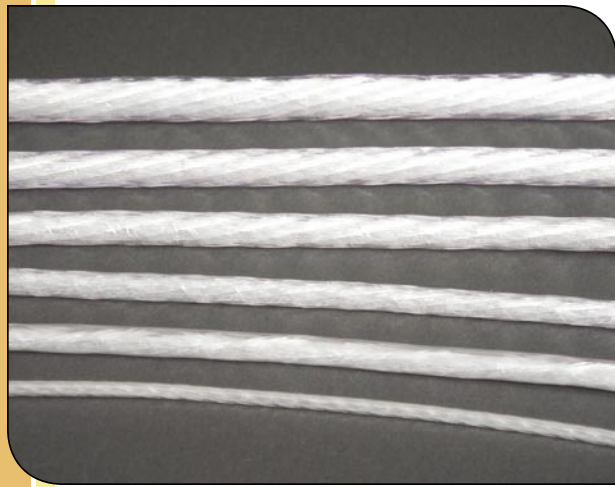
focus: Flexibility



Project: Private residence
Location: Fort Lauderdale, Florida
Designer: Stan Cohen, Florida Architectural Lighting

FIBER OPTIC CABLE side_emitting

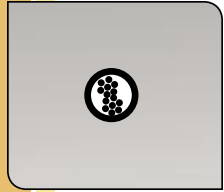
side lit



BRITEPAK® III STRANDED CABLE

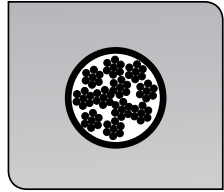
Description:
Side emitting stranded optical fiber. Patented cabling method allows maximum light distribution through the clear outer jacket. Recommended in lengths up to 100' for direct view applications, 50' for indirect applications. Both ends should be terminated. Can be cut to length at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Minimum bend radius is 4x outer diameter.

side lit



BPAK-III-15
Overall Diameter: 3/16" (5mm)
Qty. of Strands: 14
Jacket Material: Clear PVC

side lit



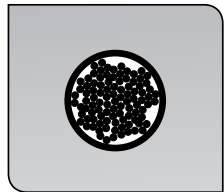
BPAK-III-75
Overall Diameter: 3/8" (10mm)
Qty. of Strands: 77
Jacket Material: Clear PVC

side lit



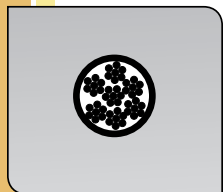
BPAK-III-40
Overall Diameter: 1/4" (6mm)
Qty. of Strands: 42
Jacket Material: Clear PVC

side lit



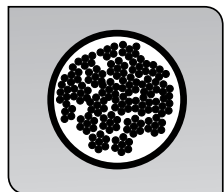
BPAK-III-100
Overall Diameter: 7/16" (11mm)
Qty. of Strands: 98
Jacket Material: Clear PVC

side lit



BPAK-III-50
Overall Diameter: 5/16" (8mm)
Qty. of Strands: 49
Jacket Material: Clear PVC

side lit



BPAK-III-150
Overall Diameter: 9/16" (14mm)
Qty. of Strands: 140
Jacket Material: Clear PVC

FIBER OPTIC CABLE side_emitting



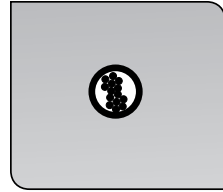
side lit



SUPERSTARS® STRANDED CABLE

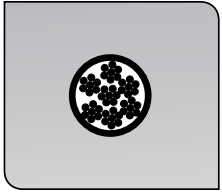
Description:
SuperStars fiber creates an unbreakable decorative linear look of diamonds along its length. Available in two different sizes for use in low light applications such as isle way lighting. Recommended in lengths up to 100'. Both ends should be terminated. Can be cut and harnessed at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Minimum bend radius is 4x outer diameter.

side lit



SS-15
Overall Diameter: 3/16" (5mm)
Qty. of Strands: 14
Jacket Material: CLEAR PVC
Technical Remarks: DIAMONDS OF LIGHT
1 1/4" ON CENTER

side lit



SS-50
Overall Diameter: 5/16" (8mm)
Qty. of Strands: 49
Jacket Material: CLEAR PVC
Technical Remarks: DIAMONDS OF LIGHT
1 3/4" ON CENTER

FIBER OPTIC CABLE end_emitting

end lit

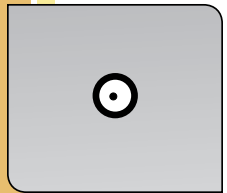


FIBERSPOTS® II STRANDED CABLE

Description:

End emitting stranded fiber optic cable. Can be used with all stranded fiber fixtures for downlighting, case lighting, step lighting and for creating decorative patterns of light. Recommended in lengths up to 30.' Can be cut, harnessed, and ferruled at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Use LB-HK-3, FS-163, or FS-118 tools for ferruling. Minimum bend radius is 4x outer diameter. Factory harnessing available upon request. Consult factory.

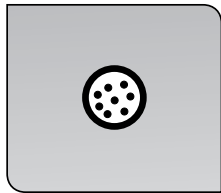
end lit



FSPT-II-1

Overall Diameter: 0.157" (4MM)
Qty. of Strands: 1
Jacket Material: BLACK PVC

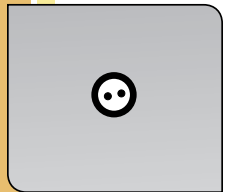
end lit



FSPT-II-8

Overall Diameter: 0.236" (6MM)
Qty. of Strands: 8
Jacket Material: BLACK PVC

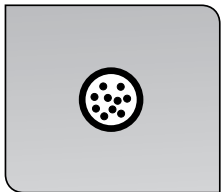
end lit



FSPT-II-2

Overall Diameter: 0.157" (4MM)
Qty. of Strands: 2
Jacket Material: BLACK PVC

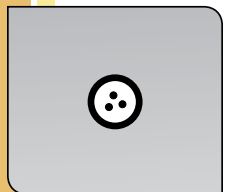
end lit



FSPT-II-10

Overall Diameter: 0.236" (6MM)
Qty. of Strands: 10
Jacket Material: BLACK PVC

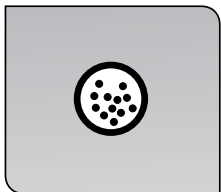
end lit



FSPT-II-3

Overall Diameter: 0.197" (5MM)
Qty. of Strands: 3
Jacket Material: BLACK PVC

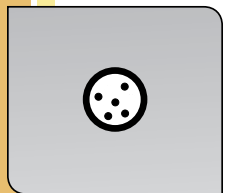
end lit



FSPT-II-12

Overall Diameter: 0.276" (7MM)
Qty. of Strands: 12
Jacket Material: BLACK PVC

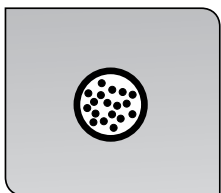
end lit



FSPT-II-5

Overall Diameter: 0.20" (5MM)
Qty. of Strands: 5
Jacket Material: BLACK PVC

end lit



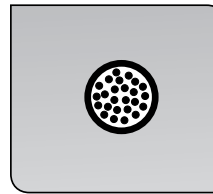
FSPT-II-18

Overall Diameter: 0.276" (7MM)
Qty. of Strands: 18
Jacket Material: BLACK PVC

FIBER OPTIC CABLE end_emitting



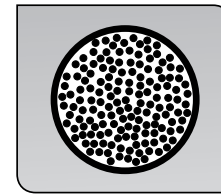
end lit



FSPT-II-25

Overall Diameter: 0.276" (7MM)
Qty. of Strands: 25
Jacket Material: BLACK PVC

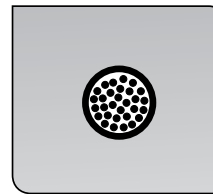
end lit



FSPT-II-150

Overall Diameter: 0.591" (15MM)
Qty. of Strands: 150
Jacket Material: BLACK PVC

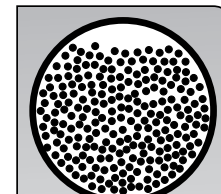
end lit



FSPT-II-30

Overall Diameter: 0.276" (7MM)
Qty. of Strands: 30
Jacket Material: BLACK PVC

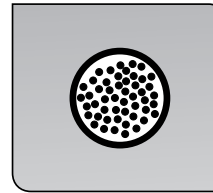
end lit



FSPT-II-225

Overall Diameter: 0.748" (19MM)
Qty. of Strands: 225
Jacket Material: BLACK PVC

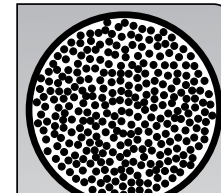
end lit



FSP-II-50

Overall Diameter: 0.394" (10MM)
Qty. of Strands: 50
Jacket Material: BLACK PVC

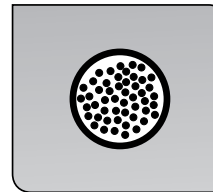
end lit



FSPT-II-300

Overall Diameter: 0.787" (20MM)
Qty. of Strands: 300
Jacket Material: BLACK PVC

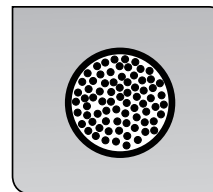
end lit



FSP-II-62

Overall Diameter: 0.42" (10MM)
Qty. of Strands: 62
Jacket Material: BLACK PVC

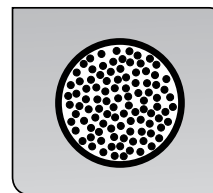
end lit



FSPT-II-75

Overall Diameter: 0.433" (11MM)
Qty. of Strands: 75
Jacket Material: BLACK PVC

end lit

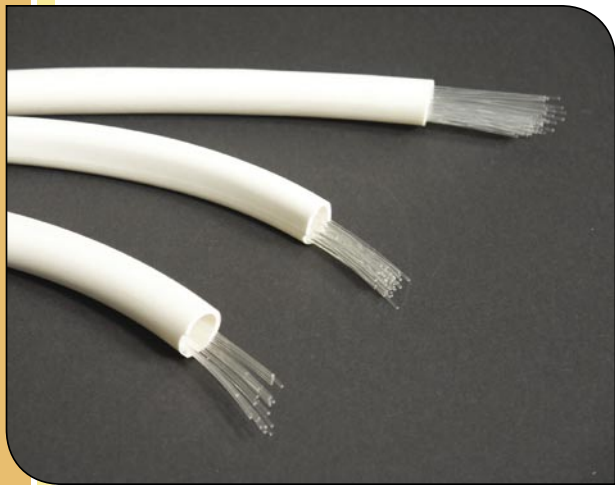


FSPT-II-100

Overall Diameter: 0.512" (13MM)
Qty. of Strands: 100
Jacket Material: BLACK PVC

FIBER OPTIC CABLE end_emitting

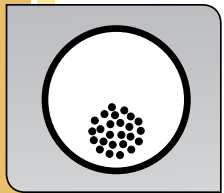
end lit



FIRE RATED JACKET STRANDED CABLE

Description:
End emitting fiber optic cable enclosed in a fire-rated outer jacket. Can be used with all stranded fiber fixtures for downlighting, case lighting, step lighting and applications requiring fire-rated cable. Recommended in lengths up to 30'. Can be cut, harnessed, and ferruled at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Use LB-HK-3, FS-163, or FS-118 tools for ferruling. Minimum bend radius is 10x outer diameter.

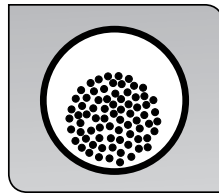
end lit



FRFS-25

Overall Diameter: 0.591" (15mm)
Qty. of Strands: 25
Jacket Material: White PVC

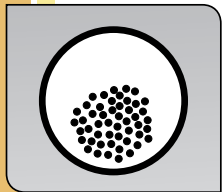
end lit



FRFS-75

Overall Diameter: 0.591" (15mm)
Qty. of Strands: 75
Jacket Material: WHITE PVC

end lit



FRFS-50

Overall Diameter: 0.591" (15mm)
Qty. of Strands: 50
Jacket Material: WHITE PVC

FIBER OPTIC CABLE end_emitting



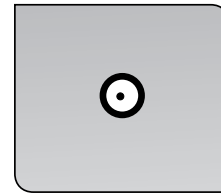
end lit



STAR CABLE STRANDED CABLE

Description:
End emitting fiber optic cable in different diameters to create star ceilings or other points of light that require varying degrees of brightness. Recommended for star ceilings in lengths up to 30'. Can be cut and harnessed at factory or in field. Use LB-HK-3 or FS-163 tools for harnessing. Minimum bend radius is 4x outer diameter.

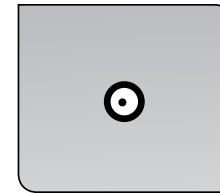
end lit



FSPT-30-J-2.2

Overall Diameter: 0.157" (4mm)
Qty. of Strands: 1
Fiber Diameter: 0.75MM
Jacket Material: BLACK PVC

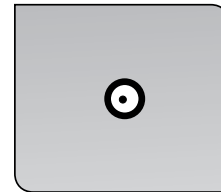
end lit



FS-40-J-2.2

Overall Diameter: 0.14" (3.6mm)
Qty. of Strands: 1
Fiber Diameter: 1.0MM
Jacket Material: BLACK PVC

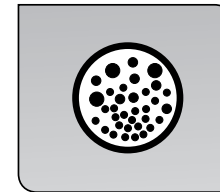
end lit



FS-80-J-3.0

Overall Diameter: 0.14" (3.6mm)
Qty. of Strands: 1
Fiber Diameter: 2.0MM
Jacket Material: BLACK PVC

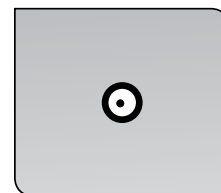
end lit



STAR-34/50

Overall Diameter: 0.433" (11mm)
Qty. of Strands: 34
Fiber Diameter: 1.5MM (3), 1.0MM (7), 0.75MM (24)
Jacket Material: BLACK PVC

end lit



FS-60-J-2.2

Overall Diameter: 0.14" (3.6mm)
Qty. of Strands: 1
Fiber Diameter: 1.5MM
Jacket Material: BLACK PVC

ILLUMINATORS

color filter options



→ → **NOTE:** These printed colors cannot precisely match the beautiful light produced by our systems. Please use this sheet as a guide only, and request a mock-up of your chosen system to see accurate color rendering.

| | apple green | amber | aqua-cyan | dark blue | dark red | green | incandescent | magenta | medium blue | white/no color | orange | salmon | teal | yellow | purple |
|-------|-------------|-------|-----------|-----------|----------|-------|--------------|---------|-------------|----------------|--------|--------|------|--------|--------|
| 601 | ● | ● | ● | ● | ⊗ | ● | ⊗ | ● | ● | ● | ● | ⊗ | ● | ● | ○ |
| 602 | ● | ● | ● | ● | ⊗ | ● | ⊗ | ● | ● | ● | ● | ⊗ | ● | ● | ○ |
| 405N | ● | ● | ● | ● | ⊗ | ● | ● | ● | ● | ● | ● | ⊗ | ● | ● | ○ |
| 404N | ● | ● | ● | ● | ⊗ | ● | ● | ● | ● | ● | ● | ⊗ | ● | ● | ○ |
| FS7L | ⊗ | ● | ● | ● | ○ | ● | ● | ● | ● | ● | ● | ○ | ● | ● | ○ |
| FS13L | ⊗ | ● | ● | ● | ○ | ● | ● | ● | ● | ● | ● | ○ | ● | ● | ○ |
| FS12L | ⊗ | ● | ● | ● | ○ | ● | ● | ● | ● | ● | ● | ○ | ● | ● | ○ |
| FS11L | ⊗ | ● | ● | ● | ○ | ● | ● | ● | ● | ● | ● | ○ | ● | ● | ○ |

→ → ● recommended ○ significantly reduced output ⊗ sorry, not available



Project: P1 Discotheque
Location: Munich, Germany
Designer: Brückner Architects, Munich, Germany

ILLUMINATORS control options_additional equipment

- → **CV** (Variable Delay On Color)
Synchronize the Color Changes of up to 100 slave (-SY) illuminators



One CV is added to a network of up to 100 slave (-SY) illuminators. Similar to a master (-SM) illuminator, the CV synchronizes the movement of all color wheels on the network. The CV also provides a variable delay on each color. The delay is user-selectable from 4 seconds to 60 minutes, with the same delay applied to every color. The CV also provides a run/stop switch allowing simple manual control over color changes, and a reset button that rotates all color wheels to their first position. Every illuminator on the network must have a 3.6 RPM motor.

The CV is designed to fit in a standard 4.5" x 2.75" x 2" deep electrical wall box. Available in 120v or 220v. It consumes 0.5 amps of electricity at 120 volts. The CV connects to each illuminator on the network in a daisy-chain pattern with Beldon 8770 or similar data communication cable. Total cable length on the network should not exceed 2000 feet. Must be mounted in a dry, accessible location.

ILLUMINATORS control options_built-in



- → **DR** (Dimmable Ready)
For Wall-Box Rheostat Dimmers, Electronic Transformer
- → **DRC** (Dimmable Ready)
For Architectural and Commercial Dimmers, Electronic Transformer
- → **DX** (DMX Control of Dowser (Dimmer) Wheel and 8 Color Wheel)
The -DX option adds DMX-512 compatible control over a dimming dowser wheel and an 8 color wheel. Using three DMX channels, the -DX option allows for dowsing of the illuminator output from 100% to nearly 0%, for continuous color wheel rotation at continuously variable speed up to 12RPM, and also for "skip to color" control. Using this last option, you can program the illuminator to move from green to blue to yellow to blue and back to green, for example.

A complete description on the planning, ordering, installation, programming and operation of Fiberstars DMX systems is available in the "Fiberstars DMX Modules User's Guide", available from Customer Service and our website. The -DX option requires that the network be controlled by a DMX controller (by others), and that each -DX enabled illuminator be connected to the controller according to DMX protocol. The illuminators are connected with three conductor, 18 AWG, stranded cable with an overall shield. Beldon 9729 is a common cable and may be appropriate for your installation. Please see the DMX Guide for more info.

- → **DXLR** (Same as the -DX Option, but adds 5-pin XLR connectors for rapid installation)
- → **SM** (Synchronization Master)
Synchronizes the color changes of up to 40 slave (-SY) illuminators

One -SM is added to one illuminator on a network of up to 40 slave (-SY) illuminators. The -SM option synchronizes the movement of all color wheels on the network. Every illuminator on the network must have the same speed motor. If run/stop control of the continuous color change is desired, the master illuminator requires a dry contact switch in a remote accessible location and a two conductor cable. The -SM fits inside one illuminator on a network and connects to the other illuminators on the network in a daisy-chain pattern with 3 conductor, 18 AWG, stranded cable Beldon 8770 or similar data communication cable. Total cable length on the network should not exceed 2,000 feet.

- → **SY** (Synchronization Slave)
Allows an illuminator to operate on a -CV or -SM network

One -SY is added to each slave illuminator on a network. There must be one -CV or one -SM on the same network. The -SY option allows each illuminator to synchronize with the -CV or -SM so that all colors change together. Every illuminator on the network must have the same speed motor. If run/stop control of the continuous color changes is desired, the master illuminator requires a dry contact switch in a remote accessible location and a two conductor cable. The -SY fits inside one illuminator on a network and connects to the other illuminators on the network in a daisy-chain pattern, starting at the -CV or at the -SM illuminator, with Beldon 8770 or similar data communication cable. Total cable length on the network should not exceed 2,000 feet.

COLOR, DIMMING AND SPARKLE WHEELS

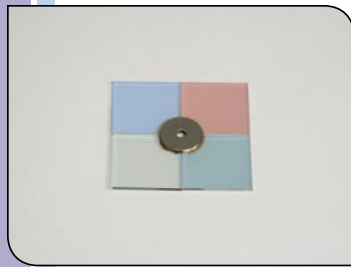
color wheels

COLOR, DIMMING AND SPARKLE WHEELS

sparkle wheels_dimming wheels



4 color



| <i>PT-01C, PT-05C, PT-07C</i> | |
|-------------------------------|---|
| Description: | 4 COLOR |
| Dimensions: | 2" SQUARE |
| Illuminator Type: | PT-01C: 007, 301, 401, 402, 403 PT-05C: 501 PT-07C: FS2L, FS11L, FS12L, FS13L, FS7L, 201, 404N, 405N, 601, 602, 701 |
| Technical Remarks: | REFER TO COLOR CHART FOR COLOR CHOICES ON PAGE 34 |

8 color



| <i>PT-08C, PT-09C</i> | |
|---------------------------|---|
| Description: | 8 COLOR |
| Dimensions: | 3" OCTAGON |
| Illuminator Type: | PT-08C: 007, 301, 401, 402, 403, 501 PT-09C: FS2L, FS11L, FS12L, FS13L, FS7L, 201, 404N, 405N, 601, 602, 701 |
| Technical Remarks: | REFER TO COLOR CHART FOR COLOR CHOICES ON PAGE 34 |

large 4 color



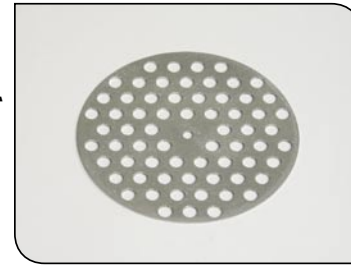
| <i>PT-10C</i> | |
|---------------------------|---|
| Description: | 4 COLOR |
| Dimensions: | 2.8" SQUARE |
| Illuminator Type: | FS2L, FS11L, FS12L, FS13L, FS7L, 201, 404N, 405N, 601, 602, 701 |
| Technical Remarks: | REFER TO COLOR CHART FOR COLOR CHOICES ON PAGE 34 |

large 8 color



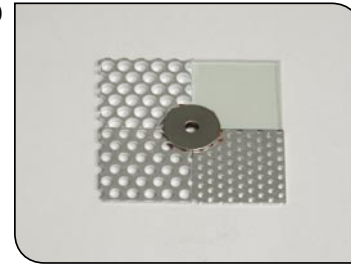
| <i>PT-11C</i> | |
|---------------------------|---|
| Description: | 8 COLOR |
| Dimensions: | 3.25" OCTAGON |
| Illuminator Type: | FS2L, FS11L, FS12L, FS13L, FS7L, 201, 404N, 405N, 601, 602, 701 |
| Technical Remarks: | REFER TO COLOR CHART FOR COLOR CHOICES ON PAGE 34 |

sparkle



| <i>SPKWL</i> | |
|---------------------------|--|
| Description: | PERFORATED METAL SPARKLE WHEEL, WITHOUT MOTOR - 400 STRANDS MAXIMUM |
| Illuminator Type: | FS2L, FS11L, FS12L, FS13L, FS7L, 201, 404N, 405N, 601, 602, 701 |
| Technical Remarks: | CAN BE ADDED TO A COLOR WHEEL BUT USES SAME MOTOR SHAFT. |

dimming



| <i>DIMWL</i> | |
|---------------------------|--|
| Description: | PERFORATED METAL DIMMING WHEEL, 20% TRANSMISSION, 40% TRANSMISSION, 60% TRANSMISSION, 100% TRANSMISSION, OPTIONAL BLACKOUT SECTION CAN BE SUBSTITUTED FOR ANY TRANSMISSION |
| Dimensions: | 2" SQUARE |
| Illuminator Type: | FS2L, FS11L, FS12L, FS13L, FS7L, 201, 404N, 405N, 601, 602, 701 |
| Technical Remarks: | CANNOT BE ADDED WITH A COLOR WHEEL |

ILLUMINATOR OPTICAL PORTS

description_specifications



port kit



A10980

Description: ZINC PORT, 300 FIBERS STANDARD
Illuminator Type: FS11L, FS12L, FS13L, FS7L, 404N, 405N, 601, 602 (OLD ILLUMINATORS 007C, FS2L, 402, 403)

400 fiber tip



C10641-33

Description: ZINC PORT TIP, 400 FIBERS
Illuminator Type: FS11L, FS12L, FS13L, FS7L, 404N, 405N, 601, 602 (OLD ILLUMINATORS 007C, FS2L, 402, 403)

450 fiber tip



C10641-45

Description: ZINC PORT TIP, 450 FIBERS
Illuminator Type: FS11L, FS12L, FS13L, FS7L, 404N, 405N, 601, 602 (OLD ILLUMINATORS 007C, FS2L, 402, 403)

600 fiber tip



C10643

Description: ZINC PORT, 600 FIBERS
Illuminator Type: FS11L, FS12L, FS13L, FS7L, 404N, 405N, 601, 602 (OLD ILLUMINATORS 007C, FS2L, 402, 403)

port kit



HID-300

Description: ALUMINUM PORT, 300 FIBERS
Illuminator Type: 201, 301, 401, 402

port kit



HID-407

Description: PLASTIC PORT, 300 FIBERS
Illuminator Type: 007, 403

port kit



HID-507

Description: PLASTIC PORT, 300 FIBERS
Illuminator Type: 501

port kit



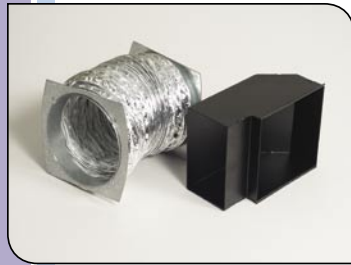
HID-707

Description: ACRYLIC PORT, 300 FIBERS
Illuminator Type: 701

ILLUMINATOR MOUNTING ACCESSORIES

description_specifications

vent kit



FS-VK

Description: VENTILATION KIT FOR FS11L, FS12L, FS13L
Technical Remarks: EXHAUST: FLEXIBLE DUCT, 36" LONG
 INTAKE: RIGID VENT, MOUNTED EITHER FACING FRONT OR FACING BACK.

wall brackets



FS-WB

Description: WALL MOUNTING BRACKETS WITH LAG BOLTS
Technical Remarks: OPTIONAL BRACKETS TO MOUNT 404N OR 201 ILLUMINATORS ON A VERTICAL WALL.

t-bar kit



TBK

Description: T-BAR MOUNTING KIT
Technical Remarks: FOR MOUNTING CERTAIN ILLUMINATORS TO T-BAR CEILINGS. SEE INDIVIDUAL ILLUMINATOR SPEC SHEETS FOR COMPATIBILITY.

ILLUMINATOR LAMPS

interior_quartz halogen_efficient



71 watts QH



HI-071

Lamp Wattage: 71 WATTS
Type: MR16
Color Temperature: 3000° K
Illuminator Type: FS1L

71 watts QH



HI-075

Lamp Wattage: 71 WATTS
Type: MR16
Color Temperature: 3000° K
Illuminator Type: 007, 007C, FS2L, FS11L

100 watts QH



HI-100

Lamp Wattage: 100 WATTS
Type: MR16
Color Temperature: 3000° K
Illuminator Type: FS12L, FS13L

183 watts QH



HI-110

Lamp Wattage: 183 WATTS
Type: MR16
Color Temperature: 3000° K
Illuminator Type: FS7L, 201

ILLUMINATOR LAMPS
interior_metal halide_efficient

68 watts MH



| <i>HID-68</i> | |
|---------------------------|--------------|
| Lamp Wattage: | 68 WATTS |
| Type: | METAL HALIDE |
| Color Temperature: | 3500° K |
| Illuminator Type: | FS68 |

150 watts MH



| <i>HID-303, HID-304</i> | |
|---------------------------|--|
| Lamp Wattage: | 150 WATTS |
| Type: | METAL HALIDE |
| Color Temperature: | HID-303 (3000° K) HID-304 (4000° K) |
| Illuminator Type: | 301, 401, 402, 403 |

150 watts MH



| <i>HID-430, HID-430MR, HID-430MC</i> | | | |
|--------------------------------------|-------------------------|---------------------------|---|
| Lamp Wattage: | 150 WATTS | Technical Remarks: | |
| Type: | METAL HALIDE | 430 | Dichroic reflector |
| Color Temperature: | 3000° K | 430MR | Metal reflector |
| Illuminator Type: | 404, 404N, 405, 405N | 430MC | Dichroic reflector, Philips Master Color |

150 watts MH



| <i>HID-440, HID-440MR, HID-440MC</i> | | | |
|--------------------------------------|-------------------------|---------------------------|---|
| Lamp Wattage: | 150 WATTS | Technical Remarks: | |
| Type: | METAL HALIDE | 440 | Dichroic reflector |
| Color Temperature: | 4000° K | 440MR | Metal reflector |
| Illuminator Type: | 404, 404N, 405, 405N | 440MC | Dichroic reflector, Philips Master Color |

ILLUMINATOR LAMPS
interior_metal halide_efficient



250 watts MH



| <i>HID-601</i> | |
|---------------------------|--------------|
| Lamp Wattage: | 250 WATTS |
| Type: | METAL HALIDE |
| Color Temperature: | 6400° K |
| Illuminator Type: | 601, 602 |

400 watts MH



| <i>HID-504</i> | |
|---------------------------|--------------|
| Lamp Wattage: | 400 WATTS |
| Type: | METAL HALIDE |
| Color Temperature: | 5600° K |
| Illuminator Type: | 501 |

400 watts MH



| <i>HID-701</i> | |
|---------------------------|--------------|
| Lamp Wattage: | 400 WATTS |
| Type: | METAL HALIDE |
| Color Temperature: | 5600° K |
| Illuminator Type: | 701, 701TT |

Tools and Accessories

Fiberstars selection of accessories provides everything you need to simplify a fiber optic installation and helps complete the light design you've always wanted.



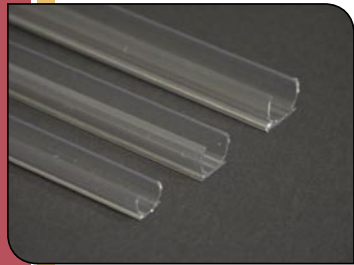
focus: Superior



Project: Anger Fountain
Location: Erfurt, Germany
Designer: Grobe and GTL, Kassel with Anger Plan, Erfurt, Germany

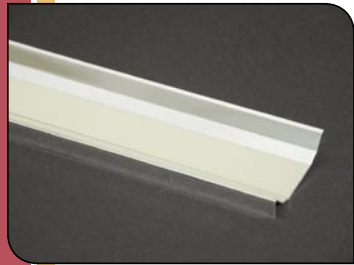
TOOLS AND ACCESSORIES anchors

clear track



| TRK-U3/8, TRK-U1/2, TRK-5/8 | |
|------------------------------------|---|
| Description: | U-TRACK, 6' LENGTH |
| Dimensions: | TRK-U3/8: 0.46" SQUARE X 6' LONG (11.7MM X 1.83MM) TRK-U1/2: 0.59" SQUARE X 6' LONG (15MM X 1.83MM) TRK-U5/8: 0.63" SQUARE X 6' LONG (16MM X 1.83MM) |
| Technical Remarks: | PVC EXTRUSION FOR MOUNTING SIDE-LIT CABLE IN STRAIGHT OR SLIGHTLY CURVED LINES. TRK-U3/8: BPAK-40 AND BPAK-50, TRK-U1/2: BPAK-75 AND BPAK-100, TRK-U5/8: BPAK-150 |

reflector track



| RFL-4 | |
|---------------------------|--|
| Description: | REFLECTIVE TRACK, 5' LENGTH. DIMENSIONS: 1 7/8"W X 5'L X 5/16"H |
| Technical Remarks: | REFLECTIVE TRACK FOR USE WITH BPAK FIBER. |

p-clips



| HI-102, HI-103, HI-104, HI-105 | |
|---------------------------------------|---|
| Description: | P-CLIPS |
| Dimensions: | HI-102: 0.48"W X 0.84"L X 0.38"H (12MM X 21MM X 10MM) HI-103: 0.48"W X 1"L X 0.48"H (12MM X 25MM X 12MM) HI-104: 0.48"W X 1.2"L X 0.62"H (12MM X 30MM X 16MM) HI-105: 0.48"W X 1.2"L X 0.68"H (12MM X 30MM X 17MM) |
| Technical Remarks: | PVC CLIPS FOR MOUNTING SIDE-LIT AND SECURING VERY SMALL FSPT IF DESIRED. HI-102: BPAK-15 AND SS-15, HI-103: BPAK-40, BPAK-50 AND SS-50, HI-104: BPAK-75 AND BPAK-100, HI-105: BPAK-150 |

TOOLS AND ACCESSORIES anchors



epoxy



| FS-115 | |
|---------------------------|---|
| Description: | EPOXY KIT |
| Technical Remarks: | 5 MINUTE EPOXY APPROVED FOR ADHERING FERRULES TO FIBER AND FIBER TO SURFACES. |

double-sided tape



| FS-131 | |
|---------------------------|--|
| Description: | DOUBLE-SIDED TAPE |
| Dimensions: | 5/16" WIDE X 165' LONG (8MM X 50M) |
| Technical Remarks: | USED TO TEMPORARILY HOLD FIBER OR TRACK TO A SURFACE. USE WITH FS-136 SILICONE ADHESIVE. |

silicone



| FS-136 | |
|---------------------------|--|
| Description: | SILICONE ADHESIVE |
| Technical Remarks: | APPROVED FOR ADHERING FIBER AND TRACK; 10.3 OZ TUBE (300ML) |

silicone

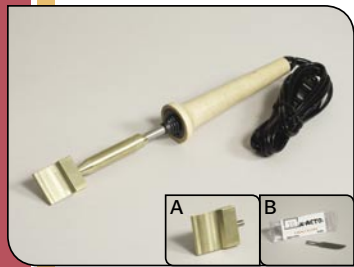


| FS-138 | |
|---------------------------|--|
| Description: | SILICONE ADHESIVE, CASE |
| Technical Remarks: | APPROVED FOR ADHERING FIBER AND TRACK; CASE OF 24 - 10.3 OZ TUBES (300ML) |

TOOLS AND ACCESSORIES

cutting tools

light duty

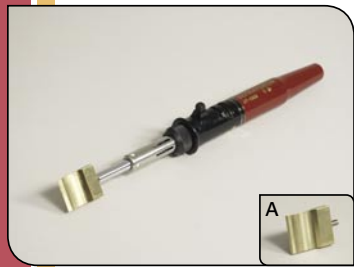


FS-118

Description: LIGHT-DUTY HOT KNIFE

Technical Remarks:
60 WATT ELECTRIC HOT KNIFE FOR PORTING FIBER INTO FERRULE PORT TIPS. NEW SHOVEL TYPE BLADE MAKES FIBER CUTTING EASIER.
REPLACEMENT BLADES:
(A) 01-15001-00 (NEW STYLE)
(B) FS-118A (OLD STYLE)

butane

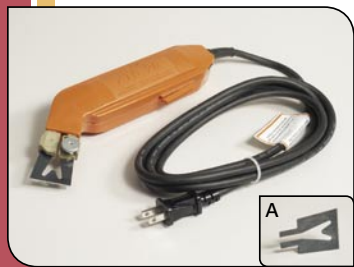


FS-163

Description: STANDARD BUTANE HOT KNIFE

Technical Remarks:
BUTANE HOT KNIFE FOR PORTING BUNDLES OF FIBER INTO FERRULES OR PORT TIPS. SHOVEL TYPE BLADE MAKES FIBER CUTTING EASIER.
REPLACEMENT BLADE:
(A) 01-15001-00 (NEW STYLE)

heavy duty



LB-HK-3

Description: HEAVY DUTY HOT KNIFE

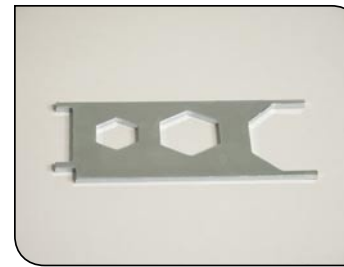
Technical Remarks:
CONTRACTOR GRADE ELECTRIC HOT KNIFE FOR PORTING BUNDLES OF FIBER INTO FERRULES OR PORT TIPS. UNIQUE BLADE DESIGN ALLOWS FOR BETTER HEAT DISTRIBUTION.
REPLACEMENT BLADE:
(A) LB-HK-3-BLADE

TOOLS AND ACCESSORIES

installation tools



lens wrench



FS-117

Description: LENS WRENCH FOR LNS FIXTURE

Technical Remarks:
USED TO TIGHTEN LENS ONTO LNS HOUSING

paver wrench



FS-915

Description: LENS WRENCH FOR FS-710 AND FS-711 FIXTURE

Technical Remarks:
USED TO TIGHTEN LENS ONTO PAVER FIXTURE

drill bits



FS-DP4

Description: STAR CEILING DRILL BIT KIT

Technical Remarks:
SET OF (4) BITS IN THREE SIZES FOR USE DRILLING THROUGH GYPSUM (DRYWALL) OR CELLULOSE (CEILING TILE) CEILINGS