When you think signs, ***think Signal-Tech!***

LED Sign Specifications for *Transportation & Rail*

BUILD AMERICA BUY AMERICA BABA COMPLIANT

All Signal-Tech Transportation & Rail Products are **Build America, Buy America** (BABA) Compliant

Signal-Tech

LED Directional Signs & Signals

SNS Series *Illuminated Street Name Signs*

Outdoor illuminated signs with an aluminum cabinet, edge-lit with cool white LED modules. The sign message is formed by a translucent printed face with a

Twelve Available Sizes

Street Name Signs are available in three lengths, two heights and either double faced or single faced.

18"h x **72**"w x **5.187**"d
51 lbs.

24"h x **72**"w x **5.187**"d
56 lbs.

18"h x **96**"w x **5.187**"d
65 lbs.

24"h x **96**"w x **5.187**"d
74 lbs.

18"h x **120**"w x **5.187**"d
80 lbs

24"h x **120**"w x **5.187**"d
90 lbs.

Visual/Illumination

- **Message Face:** Protective 0.125" clear, UV-resistant, impact-modified acrylic panel
  Message illuminates when on and remains visible when off
  - *See Physical/Environmental for face construction*
- **Graphics:** Full-color printed; message visible without illumination during the day; Printed on translucent, retroreflective sheeting applied on inside surface of face panel
- **Standard Color:** PMS342 Green, PMS294 Blue and PMS469 Brown;
  - *Other colors available upon request*
- **Standard Font:** Highway Gothic FHWA Series C or D;
  - *Other fonts available upon request*
- Edge-lit with cool white LED modules for uniform lighting and contrast
- **Minimum Brightness:** 105 nits (cd/m^2);
  - *Units less than 24" tall will appear brighter*

LED Color (Typ. λ/Temp) *K – White LED temp in Kelvins*	
White	5500K - 6500K Nominal

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877-547-9900

Specifications

prismatic, retroreflective sheeting applied that illuminates when activated and remains viewable when deactivated.

Electrical

- **Input voltage:** 100-277VAC
- **Control:** Controlled by external traffic/lighting controller
  - *Optional built-in photocell available*
- **Nominal Power:**
  72" long cabinet - 36 Watts
  96" long cabinet - 48 Watts
  120" long cabinet - 60 Watts
- **External Power Connection:** Cable on side, 3ft long with a 90º elbow and internal strain relief collar; 14AWG, 3-Conductor wire with gray PVC jacket
  - *Junction box not included*

Warranty

- **Five Years**

Compliance

- Build America, Buy America (**BABA**)

Engineered & Assembled

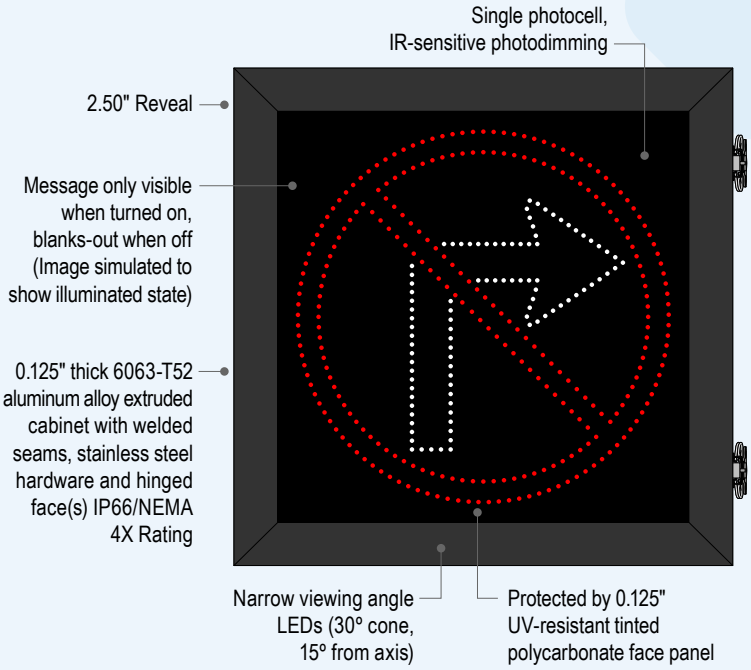
- **USA**

Physical/Environmental

- **IP/NEMA Rating:** Meets IP55/NEMA 3RX standards; All in-field modifications/conduit entry points must be properly sealed
- **Temperature & Humidity:** -40ºF to +165ºF; 0% to 99% [non-condensing]
- **Face Material:** UV-resistant, 0.125" thick, impact-modified acrylic panel
- **Cabinet Construction:** 0.090" thick 6063-T52 aluminum alloy extruded cabinet, stainless steel hardware and hinged face(s)
- **Cabinet Finish:** Low-gloss Black
  - *Other colors available upon request*
- **Cabinet Depth:** Single or Double-faced 5.187" deep
- **Cabinet Height:** 18" or 24"
  Visual Opening Height: 16" or 22"
- **Cabinet Width:** 72" [6ft], 96" [8ft], or 120" [10ft]
  Visual Opening Width: 70", 94", or 118"
- **Cabinet Weight Per Ft^2:** 4.5 - 6.5 lbs. Single or Double-Faced
  - *See individual product sheets for exact weight*
- **Mounting Interface:** Optional 0.1875" thick, 3003-H14 aluminum brackets with tri-stud mounting pattern
  - *Other Surface-mounting brackets for single-sided signs available upon request*

NEMA 4X DOT Series Direct-view, Blank-Out

Illuminated View



Visual/Illumination

- **LED Drive Current:** 15mA per string; String length varies per color
- **Automatic Photodimming:** Single photocell, IR-Sensitive, gradual brightness adjustment
  - *Optional Redundant photocells*
- **Message Flashing:** Adjusting speed/pattern, set from factory; OFF by default
- **Message Face:** Black message board protected by tinted, matte (glare-reducing) window;
  Message illuminates when on and blanks-out (disappears) when off
  - *See Physical/Environmental for face construction*
- **LED Viewing Angle:** Narrow 30° cone (15° from center axis)
  - *Optional wide-angle 120° cone*

LED Colors (Typ. λ/Temp) *nm – Wavelength in nanometers* *K – White LED temp in Kelvins*		**Narrow LED Viewing Angle** (Typ. mcd) 30° Cone *mcd – Light Intensity in millicandela*	**Wide LED Viewing Angle** (Typ. mcd) 120° Cone *mcd – Light Intensity in millicandela*
Red	625nm	3750mcd	660mcd
Amber	589nm	3900mcd	780mcd
Green	525nm	7500mcd	1200mcd
Blue	470nm	1500mcd	210mcd
White	5500K - 6500K	3750mcd	1375mcd

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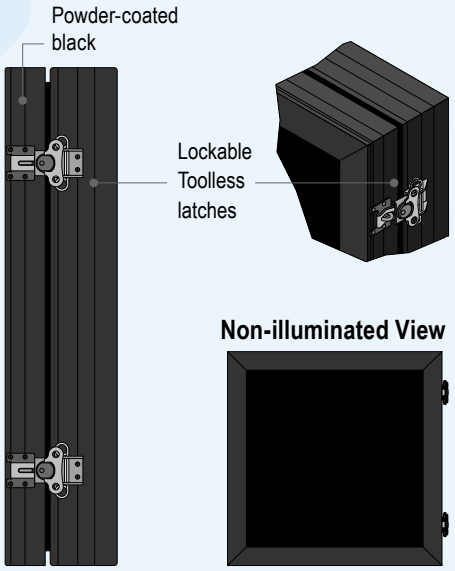
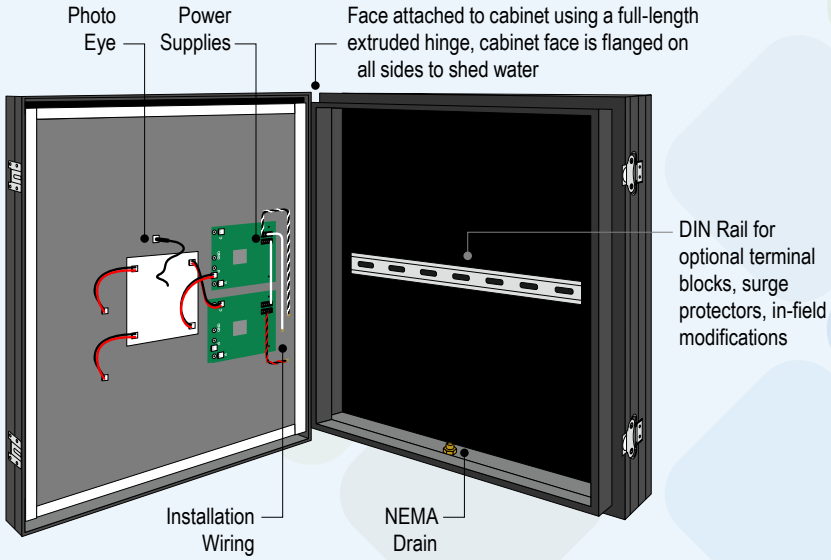
t LED Signs

Specifications

Frame Detail



Internal View



Outdoor/indoor blank-out signs with an IP66/NEMA 4X cabinet, narrow angle LEDs and contrasting black face. The sign message is formed by visible LEDs that illuminate when activated and blank-out when deactivated.

Electrical

- **Input voltage:** 100-240VAC
  - *Optional 9-24VDC*
- **Control:** Switch or external relay
- **Number of Inputs:** One input (Line or +) per message, one common (Neutral or -), one Earth Ground
- **Input Connection Type:** Stripped end, 18AWG wire;
  - *Optional tool-actuated terminal blocks (DIN Rail), Lever-actuated terminals (DIN Rail)*
- **Load Type:** Capacitive; component in a system designed to control resistive loads (e.g., an incandescent lamp) may not be suitable
- **Power Efficiency:** 81% (@120VAC, 50% rated load); power supply shall not be loaded beyond its rated safe operating area
- **Surge Protection:** None;
  - *Optional DIN Rail mounted surge protectors available*
- **Power Supply Configuration:** Non-redundant;
  - *Optional Redundant power supplies available*

Warranty

- **Five Years**

Compliance

- UL/cUL Listed for wet locations
- Build America, Buy America (**BABA**)

Engineered & Assembled

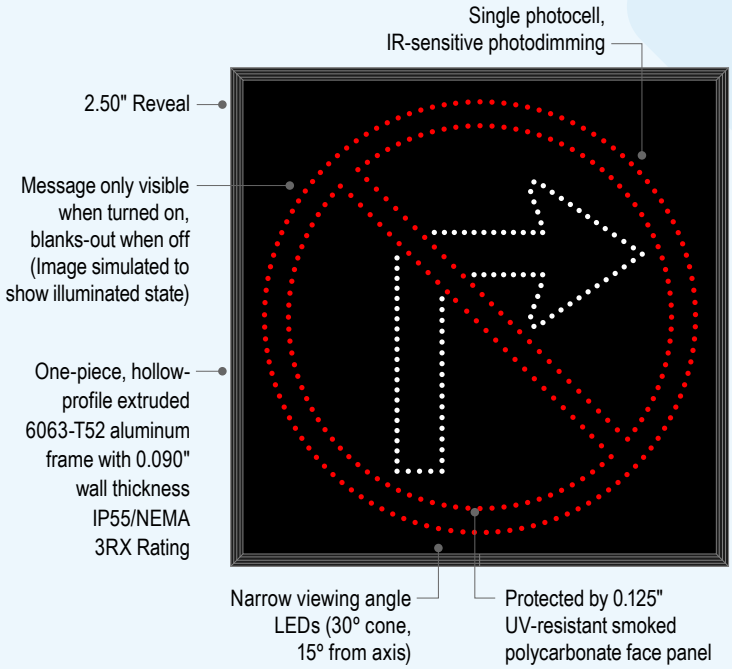
- **USA**

Physical/Environmental

- **IP/NEMA Rating:** Meets IP66/NEMA 4X standards; All in-field modifications/conduit entry points must be properly sealed
- **Temperature & Humidity:** -40ºF to +165ºF; 0% to 99% [non-condensing]
- **Face Material:** UV-resistant, 0.125" thick, tinted, matte, impact-modified acrylic panel
- **Cabinet Construction:** 0.125" thick 6063-T52 aluminum alloy extruded with welded seams, stainless steel hardware and hinged face(s)
  All exterior seams shall be continuous MIG welded to form a single structure
  The hinged face(s) shall be attached to cabinet using a full-length extruded hinge
  The cabinet face is flanged on all sides to shed water
  The door closes around its flanged frame and is compressed against a closed-cell silicone gasket using lockable toolless latches
- **Cabinet Finish:** Powder Coated Black
  - *Other colors available upon request*
- **Cabinet Depth:** Single-faced 6.50" deep
- **Cabinet Interior:** Conformal coated circuit board, NEMA 4X breather drain (for atmospheric pressure equalization), sealed/closed-end fasteners used for all bolt-on mounting
- **Mounting:** Two horizontal rows of M8x1.25 sealed Rivnuts;
  Rows are centered and spaced apart ⅔x the sign's height (spacing, quantity, and number of rows may vary)
  - *Optional mounting includes: Rivnut array; C-Channel (bolt-on); Mounting tabs; SkyBracket mast arm mount (vertical or horizontal); SkyBracket top/bottom elbow mount (with locking, serrated ring); Integrated locking, serrated ring (top and bottom*

NEMA 3RX STR Series *Blank-Out, Direct-View*

Illuminated View



Visual/Illumination

- **LED Drive Current:** 15mA per string; String length varies per color
- **Automatic Photodimming:** Single photocell, IR-Sensitive, gradual brightness adjustment
  - *Optional Redundant photocells*
- **Message Flashing:** Adjusting speed/pattern, set from factory; OFF by default
- **Message Face:** Black message board protected by smoked, matte (glare-reducing) window;
  Message illuminates when on and blanks-out (disappears) when off
  - *See Physical/Environmental for face construction*
- **LED Viewing Angle:** Narrow 30° cone (15° from center axis)
  - *Optional wide-angle 120° cone (60° from center axis)*

LED Colors (Typ. λ/Temp) *nm – Wavelength in nanometers* *K – White LED temp in Kelvins*		**Narrow LED Viewing Angle** (Typ. mcd) 30° Cone *mcd – Light Intensity in millicandela*	**Wide LED Viewing Angle** (Typ. mcd) 120° Cone *mcd – Light Intensity in millicandela*
Red	625nm	3750mcd	660mcd
Amber	589nm	3900mcd	780mcd
Green	525nm	7500mcd	1200mcd
Blue	470nm	1500mcd	210mcd
White	5500K - 6500K	3750mcd	1375mcd

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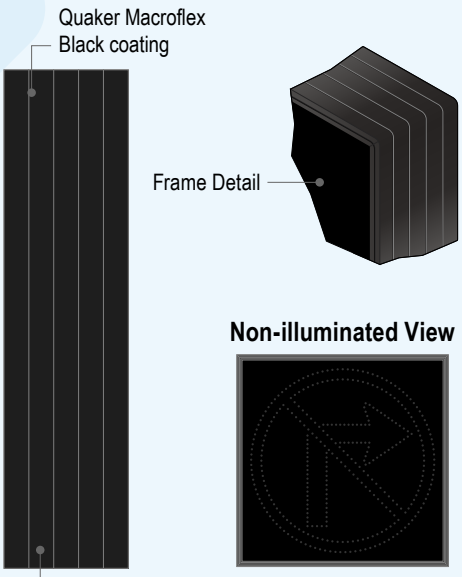
LED Signs

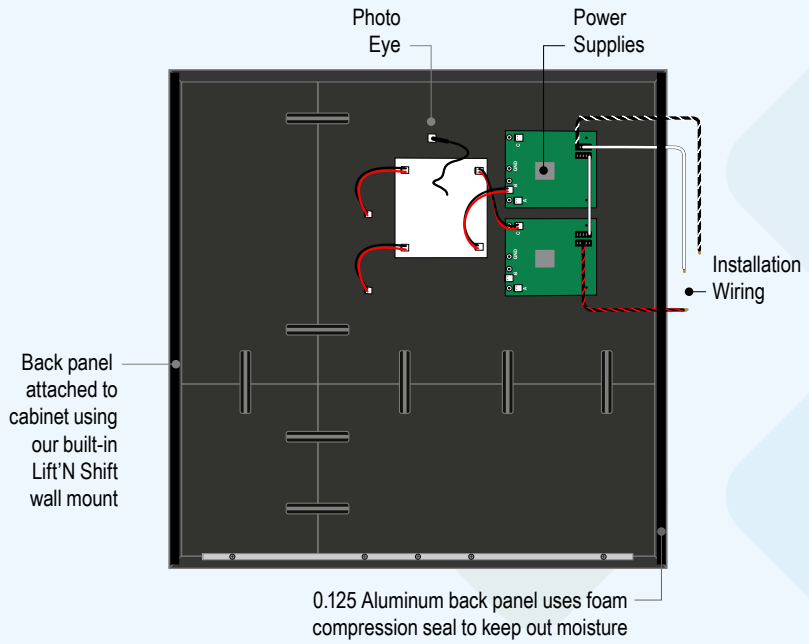
Specifications

Frame Detail



Non-illuminated View

Internal View



Outdoor/indoor blank-out signs with an IP55/NEMA 3RX cabinet, narrow angle LEDs and contrasting black face. The sign message is formed by visible LEDs that illuminate when activated and blank-out when deactivated.

Electrical

- **Input voltage:** 120-277VAC
  - *Optional 12-24VDC*
- **Control:** Switch, Signal-Tech Control Software or external relay
- **Internal Wiring:** All internal wiring shall use drip loops and all connections made to sign during installation shall conform to the National Electric Code
- **Number of Inputs:** One input (Line or +) per message, one common (Neutral or -), one Earth Ground
- **Input Connection Type:** Stripped end, 18AWG wire;
  - *Optional tool-actuated terminal blocks (DIN Rail), Lever-actuated terminals (DIN Rail)*
- **Power Efficiency:** 81% (@120VAC, 50% rated load); power supply shall not be loaded beyond its rated safe operating area
- **Surge Protection:** None;
  - *Optional DIN Rail mounted surge protectors available*
- **Power Supply Configuration:** Non-redundant;
  - *Optional Redundant power supplies available*

Warranty

- **Five Years**

Compliance

- UL/cUL Listed for wet locations
- Build America, Buy America (**BABA**)

Engineered & Assembled

- **USA**

Physical/Environmental

- **IP/NEMA Rating:** Meets IP55/NEMA 3RX standards; All in-field modifications/conduit entry points must be properly sealed
- **Temperature & Humidity:** -40ºF to +165ºF; 0% to 99% [non-condensing]
- **Face Material:** UV-resistant, 0.125" thick, smoked, matte, impact-modified acrylic panel
- **Cabinet Construction:** One-piece, hollow-profile extruded 6063-T52 aluminum frame with a 0.090" wall thickness
  The extrusion bends to the sign size with ends secured together by an interlocking extrusion and screws, holding the display board and face material captive
- **Cabinet Finish:** Electrostatically applied PPG Macroflex™ Black Extrusion Coating *(Macroflex™ is register trademark of PPG Industries, Inc.)*
  - *Other colors available upon request*
- **Cabinet Depth:** Single-faced 6" deep
- **Cabinet Interior:** Conformal coated circuit board and power supplies, moisture-absorbent interior coating, weep holes for drainage, sealed/closed-end fasteners used for optional, installed mounting interface
- **Mounting:** Lift'N Shift sign back offers built-in wall mounting
  - *Optional mounting includes: SkyBracket Mast Arm Mounting Assembly, SkyBracket Span-wire Mounting Assembly*

Accessories

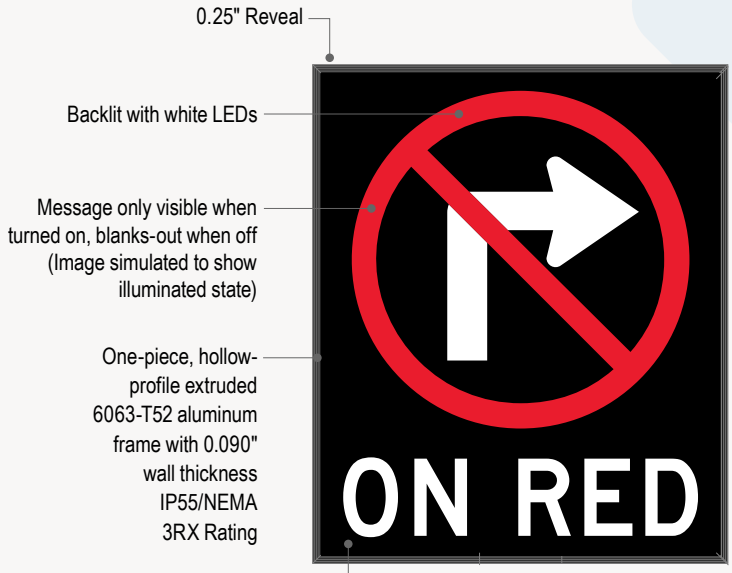
- **Audible alarm, Hood/Visor, Message Flashing**

NEMA 3RX STRB Series *Backlit, LED Blank-Out*

Backlight On

Backlight Off

Illuminated View



Visual/Illumination

- **LED Drive Current:** 50mA per string; String length varies per color
- **Message Flashing:** Adjusting speed/pattern, set from factory; OFF by default
- **Message Face:** Black message board protected by smoked, matte (glare-reducing) window;
  Message illuminates when on and blanks-out (disappears) when off
  - *See Physical/Environmental for face construction*
- **LED Illumination:** Backlit with a full array of wide-angle LEDs
  Available in Red, Amber, Green, Blue or White LEDs

LED Colors (Typ. λ/Temp) *nm – Wavelength in nanometers K – White LED temp in Kelvins*	
Red	625nm
Amber	589nm
Green	525nm
Blue	470nm
White	5500K - 6500K

Accessories

- **Audible alarm, Hood/Visor, Message Flashing**

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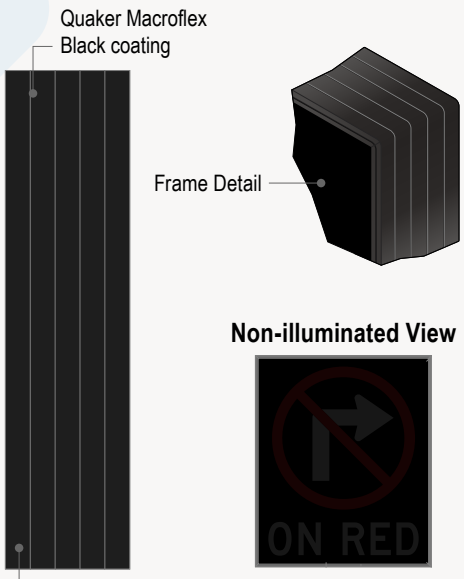
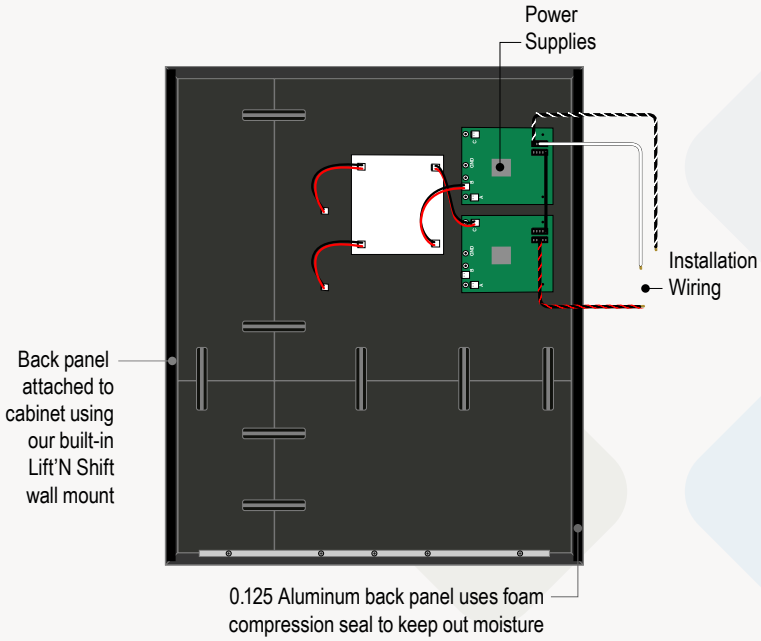
Specifications

Frame Detail



Internal View



Outdoor/indoor blank-out signs with an IP55/NEMA 3RX cabinet. The sign message is formed by a printed face that illuminates with backlit LEDs when activated and blanks-out when deactivated.

Electrical

- **Input voltage:** 120-277VAC
  - *Optional 12-24VDC*
- **Control:** Switch, Signal-Tech Control Software or external relay
- **Internal Wiring:** All internal wiring shall use drip loops and all connections made to sign during installation shall conform to the National Electric Code
- **Number of Inputs:** One input (Line or +) per message, one common (Neutral or -), one Earth Ground
- **Input Connection Type:** Stripped end, 18AWG wire;
  - *Optional tool-actuated terminal blocks (DIN Rail), Lever-actuated terminals (DIN Rail)*
- **Power Efficiency:** 81% (@120VAC, 50% rated load); power supply shall not be loaded beyond its rated safe operating area
- **Surge Protection:** None;
  - *Optional DIN Rail mounted surge protectors available*
- **Power Supply Configuration:** Non-redundant;
  - *Optional Redundant power supplies available*

Warranty

- **Five Years**

Compliance

- UL/cUL Listed for wet locations
- Build America, Buy America (**BABA)**

Engineered & Assembled

- **USA**

Physical/Environmental

- **IP/NEMA Rating:** Meets IP55/NEMA 3RX standards; All in-field modifications/conduit entry points must be properly sealed
- **Temperature & Humidity:** -40ºF to +165ºF; 0% to 99% [non-condensing]
- **Face Material:** UV-resistant, 0.125" thick, smoked, matte, impact-modified acrylic panel
- **Cabinet Construction:** One-piece, hollow-profile extruded 6063-T52 aluminum frame with a 0.090" wall thickness
  The extrusion bends to the sign size with ends secured together by an interlocking extrusion and screws, holding the display board and face material captive
- **Cabinet Finish:** Electrostatically applied PPG Macroflex™ Black Extrusion Coating *(Macroflex™ is register trademark of PPG Industries, Inc.)*
  - *Other colors available upon request*
- **Cabinet Depth:** Single-faced 6" deep
- **Cabinet Interior:** Conformal coated circuit board and power supplies, moisture-absorbent interior coating, weep holes for drainage, sealed/closed-end fasteners used for optional, installed mounting interface
- **Mounting:** Lift'N Shift sign back offers built-in wall mounting
  - *Optional mounting includes: SkyBracket Mast Arm Mounting Assembly, SkyBracket Span-wire Mounting Assembly*

NEMA 3RX STRI Series *Full-Face, Backlit LED S*

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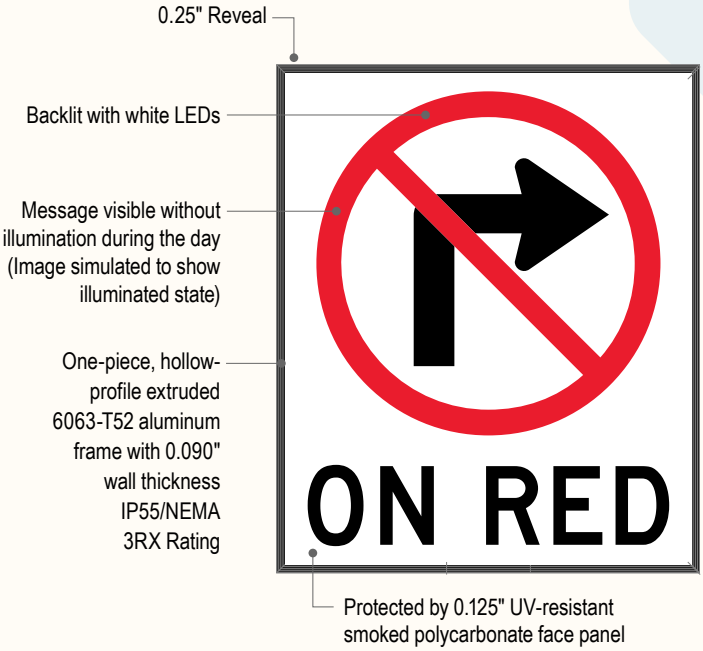
Backlight On

Backlight Off

Illuminated View



Visual/Illumination

- **LED Drive Current:** 50mA per string; String length varies per color
- **Message Flashing:** Adjusting speed/pattern, set from factory; OFF by default
- **Message Face:** Black message board protected by clear, matte (glare-reducing) window;
  Message illuminates when on and remains visible when off
  - *See Physical/Environmental for face construction*
- **LED Illumination:** Backlit with a full array of wide-angle LEDs

LED Colors (Typ. λ/Temp) *K – White LED temp in Kelvins*	
White	5500K - 6500K Nominal

Accessories

- **Audible alarm, Hood/Visor, Message Flashing**

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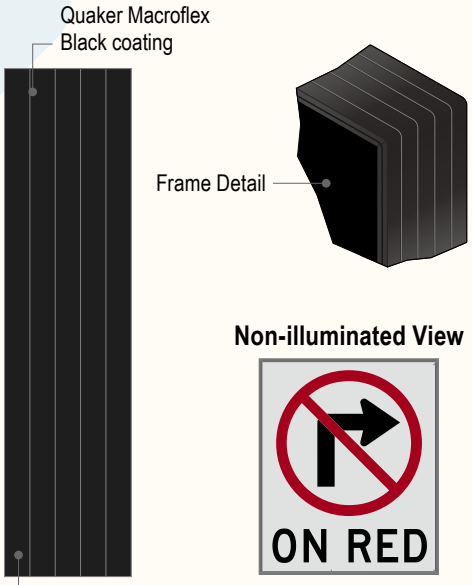
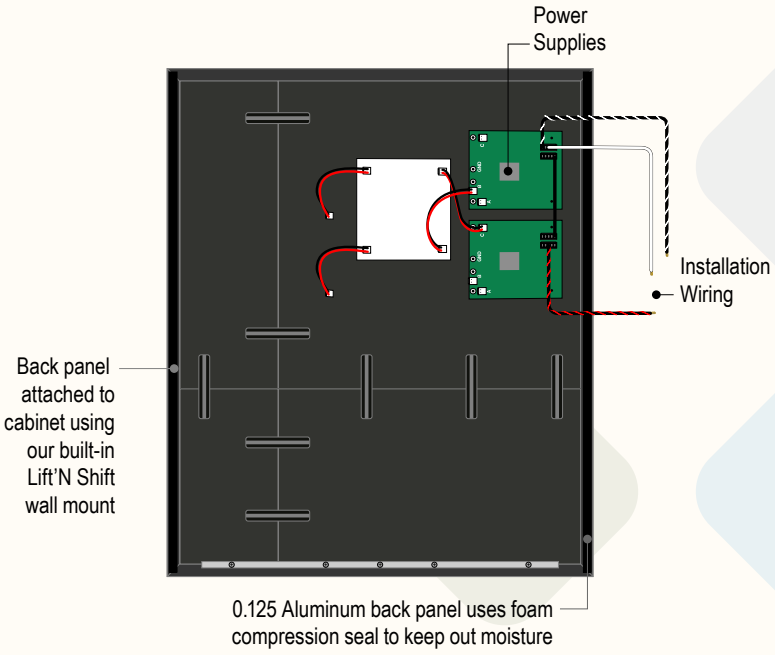
Specifications

Frame Detail



Internal View



Outdoor/indoor blank-out signs with an IP55/NEMA 3RX cabinet. The sign message is formed by a printed face that illuminates with backlit LEDs when activated and blanks-out when deactivated.

Electrical

- **Input voltage:** 120-277VAC
  - *Optional 12-24VDC*
- **Control:** Switch, Signal-Tech Control Software or external relay
- **Internal Wiring:** All internal wiring shall use drip loops and all connections made to sign during installation shall conform to the National Electric Code
- **Number of Inputs:** One input (Line or +) per message, one common (Neutral or -), one Earth Ground
- **Input Connection Type:** Stripped end, 18AWG wire;
  - *Optional tool-actuated terminal blocks (DIN Rail), Lever-actuated terminals (DIN Rail)*
- **Power Efficiency:** 81% (@120VAC, 50% rated load); power supply shall not be loaded beyond its rated safe operating area
- **Surge Protection:** None;
  - *Optional DIN Rail mounted surge protectors available*
- **Power Supply Configuration:** Non-redundant;
  - *Optional Redundant power supplies available*

Warranty

- **Five Years**

Compliance

- UL/cUL Listed for wet locations
- Build America, Buy America (**BABA**)

Engineered & Assembled

- **USA**

Physical/Environmental

- **IP/NEMA Rating:** Meets IP55/NEMA 3RX standards; All in-field modifications/conduit entry points must be properly sealed
- **Temperature & Humidity:** -40ºF to +165ºF; 0% to 99% [non-condensing]
- **Face Material:** UV-resistant, 0.125" thick, clear, matte, impact-modified acrylic panel
- **Cabinet Construction:** One-piece, hollow-profile extruded 6063-T52 aluminum frame with a 0.090" wall thickness
  The extrusion bends to the sign size with ends secured together by an interlocking extrusion and screws, holding the display board and face material captive
- **Cabinet Finish:** Electrostatically applied PPG Macroflex™ Black Extrusion Coating *(Macroflex™ is register trademark of PPG Industries, Inc.)*
  - *Other colors available upon request*
- **Cabinet Depth:** Single-faced 6" deep
- **Cabinet Interior:** Conformal coated circuit board and power supplies, moisture-absorbent interior coating, weep holes for drainage, sealed/closed-end fasteners used for optional, installed mounting interface
- **Mounting:** Lift'N Shift sign back offers built-in wall mounting
  - *Optional mounting includes: SkyBracket Mast Arm Mounting Assembly, SkyBracket Span-wire Mounting Assembly*

We do **MORE** than you think...

Let us manufacture a sign that meets **your** unique requirements.

Personalize **your** design with customized selections:

- Message wording, color, and font style
- Illumination style – direct-view or backlit
- Custom paint color and finish – including PMS color matching
- Full-color graphics and symbols, including PMS color matching for logo branding

Optional Accessories:

- Beacon strobe
- Piezo alarm
- Flasher
- Mounting Brackets
- Switches

***All* Signal-Tech Transportation &**
Rail Products Meet Requirements for,
Build America, Buy America (BABA)

BABA Mandates that federal infrastructure projects use materials and goods produced in the U.S. The policy seeks to bolster domestic manufacturing, create jobs, and strengthen the national economy by prioritizing American-made products and suppliers, ensuring taxpayer dollars support U.S. businesses.

Signal-Tech
LED Directional Signs & Signals

4985 Pittsburgh Avenue • Erie, Pennsylvania 16509
toll free: **877-547-9900** • fax: **814-835-2300**
email: **sales@signal-tech.com**

signal-tech.com

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