



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



Sign, Mounting & Accessories  
**Specifications**

**Signal-Tech**

LED Directional Signs & Signals

OPEN

CLEARANCE 7' 8"

CLOSED

# PHX/SBL Series

## Blank-out LED Backlit Signs

### On State



Backlit LEDs illuminate the message through a black opaque face.

### Off State



Sign "blanks-out" when off, preventing message from being viewable.

**PHX Series**  
Outdoor / Indoor

**SBL Series**  
Indoor Only

		PHX Series Outdoor / Indoor	SBL Series Indoor Only
Description	Blank-out sign with a block letter-style message face. Message illuminates when turned on and blanks out or disappears when off.	•	•
Illumination	Backlit high intensity LEDs	•	
	Backlit standard LEDs		•
Message	Standard Font: Swiss 721 Bold BT Custom font styles, symbols and graphics available Black message face, LEDs used determine message color. Message blanks-out (disappears) when off	•	•
LED Message Colors	Red, Green, Amber, Blue or White	•	•
Cabinet Construction	<b>Single Face Signs</b> One piece extruded aluminum frame with 1/8" thick translucent dark gray diffused acrylic face panel <b>Double-faced Signs up to 14"h x 18"w</b> One piece extruded aluminum frame with 1/8" thick translucent dark gray diffused acrylic face panel <b>Double Faced Signs over 14"h x 18"w</b> Available with custom engineering	•	•
Cabinet Depth	Single-faced Signs: 2 1/4" deep Double faced Signs Up to 14"h x 18"w: 5 1/2" deep Double faced Signs Larger than 14"h x 18"w: 7 1/2" deep	•	•
Cabinet Finish	Standard Duranodic Bronze; <i>Custom finishes available (See Paint Options below)</i>	•	•
Temperature and Humidity Ratings	Cabinet and sign components operate in the following temperature and humidity conditions: • Operational and storage temperature range: -40°F to +165°F • Humidity range: 0% to 99% (non-condensing)	•	•
IP/NEMA Rating	IP55/NEMA 3RX	•	
Electrical	Input voltage: 120-277VAC or 12-24VDC UL/cUL Listed for wet locations	•	•
Control	Signal-Tech Sign Control Software External dry contact relay Switch	•	•
Mounting	Lift'N Shift sign back offers built-in wall mounting ( <i>single face signs only</i> ) Ceiling, side, post or recessed mounting can be purchased separately	•	•
Accessories	Flashing; beacon strobe and piezo alarm ( <i>available in cabinets ≥ 5 1/2" deep only</i> )	•	•
Warranty	5 Years	•	
	2 Years		•

## Paint Options

### Standard Paint Color



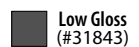
Duranodic Bronze Semi-gloss is the standard color for all sign frames and mounting

### Custom Paint Color Match



Paint matched to your color and desired finish

### Available Finishes



For more information about these products visit [signal-tech.com](http://signal-tech.com) or contact [sales@signal-tech.com](mailto:sales@signal-tech.com)

# PHXF/SBLF Series

## LED Backlit Signs



### On State



Backlit white LEDs illuminate the printed message face.

### Off State



Sign message is always viewable, even when turned off.

**PHXF Series**  
Outdoor / Indoor

**SBLF Series**  
Indoor Only

		PHXF Series Outdoor / Indoor	SBLF Series Indoor Only
Description	Designed with a translucent message face that's readable without illumination. Ideal for full color symbols and graphics. Message face can be illuminated for added emphasis.	•	•
Illumination	Backlit high intensity LEDs	•	
	Backlit standard LEDs		•
Message	Standard Font: Swiss 721 Bold BT Custom color matching, font styles, symbols, graphics and logos available White message face, White LEDs illuminate printed message/graphics	•	•
LED Message Colors	White LEDs	•	•
Cabinet Construction	<b>Single Face Signs</b> One piece extruded aluminum frame with 1/8" thick translucent white polycarbonate face panel <b>Double-faced Signs up to 14"h x 18"w</b> One piece extruded aluminum frame with 1/8" thick translucent white polycarbonate face panel <b>Double Faced Signs over 14"h x 18"w</b> Available with custom engineering	•	•
Cabinet Depth	Single-faced Signs: 2 1/4" deep Double faced Signs Up to 14"h x 18"w: 5 1/2" deep Double faced Signs Larger than 14"h x 18"w: 7 1/2" deep	•	•
Cabinet Finish	Standard Duranodic Bronze; <i>Custom finishes available (See Paint Options below)</i>	•	•
Temperature and Humidity Ratings	Cabinet and sign components operate in the following temperature and humidity conditions: • Operational and storage temperature range: -40°F to +165°F • Humidity range: 0% to 99% (non-condensing)	•	•
IP/NEMA Rating	IP55/NEMA 3RX	•	
Electrical	Input voltage: 120-277VAC or 12-24VDC UL/cUL Listed for wet locations	•	•
Control	Signal-Tech Sign Control Software External dry contact relay Switch	•	•
Mounting	Lift'N Shift sign back offers built-in wall mounting ( <i>single face signs only</i> ) Ceiling, side, post or recessed mounting can be purchased separately	•	•
Accessories	Flashing; beacon strobe and piezo alarm ( <i>available in cabinets ≥ 5 1/2" deep only</i> )	•	•
Warranty	5 Years	•	
	2 Years		•

### Custom Paint Colors - Ready-mixed



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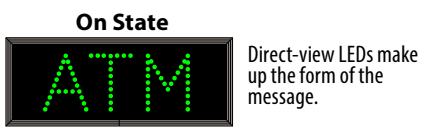




CREDIT CARD

# TCL Series

## Blank-out Direct-view LED Signs



**TCL Series**  
Outdoor / Indoor

Description	Blank-out sign with a block letter-style message face. Message illuminates when turned on and blanks out or disappears when off.	•
Illumination	Super bright, direct-view LEDs	•
Message	Black message face, contrasting LEDs illuminate when on and blank-out (disappear) when off Individual LEDs form the message characters or symbols LEDs used determine message color Custom messages available	•
LED Message Colors	Red, Green, Amber, Blue or White	•
Cabinet Construction	<b>Single Face Signs</b> One piece extruded aluminum frame with 1/8" thick translucent dark gray diffused acrylic face panel <b>Double-faced Signs up to 14"h x 18"w</b> One piece extruded aluminum frame with 1/8" thick translucent dark gray diffused acrylic face panel <b>Double Faced Signs over 14"h x 18"w</b> Available with custom engineering	•
Cabinet Depth	Single-faced Signs: 2 1/2" deep Double faced Signs Up to 14"h x 18"w: 5 1/2" deep Double faced Signs Larger than 14"h x 18"w: 7 1/2" deep	•
Cabinet Finish	Standard Duranodic Bronze; <i>Custom finishes available (See Paint Options below)</i>	•
Temperature and Humidity Ratings	Cabinet and sign components operate in the following temperature and humidity conditions: • Operational and storage temperature range: -40°F to +165°F • Humidity range: 0% to 99% (non-condensing)	•
IP/NEMA Rating	IP55/NEMA 3RX	•
Electrical	Input voltage: 120-277VAC or 12-24VDC UL/cUL Listed for wet locations	•
Control	Signal-Tech Sign Control Software External dry contact relay Switch	•
Mounting	Lift'N Shift sign back offers built-in wall mounting ( <i>single face signs only</i> ) Ceiling, side, post or recessed mounting can be purchased separately	•
Accessories	Audible alarm; flashing; visor; and automatic brightness dimming	•
Warranty	5 Years	•

## Paint Options

**Standard Paint Color**  
 Duranodic Bronze Semi-gloss is the standard color for all sign frames and mounting

**Custom Paint Color Match**  
 Paint matched to your color and desired finish

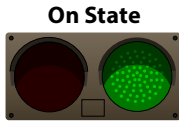
**Available Finishes**  
 High Gloss (#31841)  
  Semi-Gloss (#31842)  
  Low Gloss (#31843)



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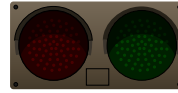
# TCIL Series

## LED Traffic Controllers



**On State**

Super bright, direct-view LEDs illuminate the translucent colored lens.



**Off State**

Sign "blanks-out" when off, preventing message from being viewable.

**TCIL Series**  
Outdoor / Indoor

Description	Weather resistant, double signal in an injection-molded, impact-resistant polycarbonate housing. Features a replaceable LED circuit board face and hood assembly. Available in a horizontal or vertical configuration.	•
Illumination	Super bright, direct-view LEDs	•
Message Face	Translucent polycarbonate lenses matched to the color of the LEDs 4" diameter monochrome dots, symbols or short words Field replaceable	•
Cabinet Construction	Two piece, injection molded polycarbonate housing and face with hoods.	•
Cabinet Depth	Single-faced: 6" Deep overall; 3" deep housing with 3" deep hoods	•
Cabinet Finish	Standard Duranodic Bronze; <i>Custom finishes available (See Paint Options below)</i>	•
Temperature and Humidity Ratings	The cabinet and sign components operate in the following temperature and humidity conditions: • Operational and storage temperature range: -40°F to +165°F • Humidity range: 0% to 99% (non-condensing)	•
IP/NEMA Rating	IP55/NEMA 3RX	•
Electrical	Input voltage: 120-277VAC or 12-24VDC UL/cUL Listed for wet locations	•
Control	Signal-Tech Sign Control Software External dry contact relay Switch	•
Mounting	Molded housing is provided with knockouts for wall mounting Ceiling, side, post or recessed mounting can be purchased separately	•
Accessories	Audible alarm; flashing ( <i>in unison or alternating</i> )	•
Warranty	5 Years	•



### Custom Paint Colors - Ready-mixed



White  
High Gloss  
(#30819)



Jet Black  
High Gloss  
(#30820)



Satin Black  
Semi-Gloss  
(#30821)



Yellow  
High Gloss  
(#30822)



Brushed Aluminum  
Low Gloss  
(#30823)



Red  
High Gloss  
(#30824)



Blue  
High Gloss  
(#30825)



Green  
High Gloss  
(#30826)

For more information about these products visit [signal-tech.com](http://signal-tech.com) or contact [sales@signal-tech.com](mailto:sales@signal-tech.com)

# Accessories

## Control Switch, Piezo Alarm, Beacon Strobe & Flasher

### Control Switch



Description & Usage	Ideal for controlling our single, two-message and multi-message signs Consists of a stainless-steel toggle switch, indicator lights and a stainless-steel cover plate Custom gang configurations are available Compatible with TCL, TCIL, PHX, PHXF, SBL and SBLF Series
Electrical	12VDC, 24VDC, 120VAC, 277VAC
Specifications	<b>Switch Plate Construction:</b> Stainless-steel with pre-punched holes <b>Indicator Lights:</b> Available in Red, Green, Amber or Blue <b>Switch Construction:</b> Toggle switch with pre-wired pigtails
Finish	Stainless-steel toggle and brushed stainless-steel switch plate

### Piezo (Audible) Alarm (Factory Installation Only)



Description & Usage	Water proof solid state shutter-type buzzer 95db at 10 feet Standard location is 2" from bottom right-side of sign cabinet, centered on frame Use with sign cabinets $\geq 2\frac{1}{2}$ " deep Compatible with TCL, TCIL or PHX, PHXF, SBL and SBLF Series $\geq 5\frac{1}{2}$ " deep
Electrical	120-277VAC or 12-24VDC
Specifications	1.41"H x 1.41"W x 1.7"D
Finish	Black

### Beacon Strobe (Factory Installation Only)



Description & Usage	Amber, low profile strobe Positioned on top center of frame, unless otherwise requested Use with sign cabinets $\geq 2\frac{1}{2}$ " deep Compatible with TCL, TCIL or PHX, PHXF, SBL and SBLF Series $\geq 5\frac{1}{2}$ " deep
Electrical	120VAC (0.35A) or 12-24VDC (0.35A) UL/cUL Listed
Finish	Transparent Amber, Black

### Built-in Flasher

Description & Usage	Used to flash single or multiple messages Flashing two or more messages in unison or alternating fashion Factory Installation Only Adjustable flashing rate from 6-300 flashes per minute; Factory set at 55fpm
Electrical	120-277VAC or 12-24VDC

## Paint Options

#### Standard Paint Color



Duranodic Bronze Semi-gloss is the standard color for all sign frames and mounting

#### Custom Paint Color Match



Paint matched to your color and desired finish

#### Available Finishes



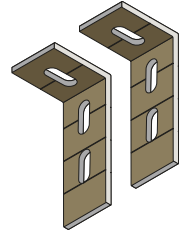
# Mounting

## Ceiling, Side, Post & Recessed Frame Mounts



### Ceiling and Side Mount Brackets

Description & Usage	One pair of L-shaped aluminum brackets for Ceiling or Side mounting <b>For Single or Double-faced Signs</b> Use 1 pair of brackets for ceiling mounting signs up to 42"W x 26"H Use 1 pair of brackets for side mounting signs up to 26" square Compatible with TCL, TCIL, PHX, PHXF, SBL and SBLF Series
Lengths	4"W x 2"H x various depths dictated by sign size
Specifications	4"W x 2"H 1/8" Extruded aluminum bracket with pre-drilled mounting holes
Finish	Duranodic Bronze; Custom paint finishes available see below



### 2 1/4" x 3" Post

Description & Usage	For Center Post and Flag Mount applications, can be used on signs up to 26"W. For Double Post Ground, Side or Inverted (Ceiling) mounting can be used on all signs up to 84"H. Compatible with TCL, TCIL, PHX, PHXF, SBL and SBLF Series
Lengths	<b>6" x 6" Baseplate:</b> 40", 60" or 90" <b>Direct Burial:</b> 60", 90" or 120"
Specifications	2 1/4" x 3" x 0.115 Extruded aluminum post with end cap and 6" x 6" welded baseplate
Finish	Duranodic Bronze; Custom paint finishes available see below



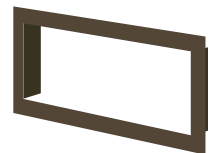
### 4" x 4" Post

Description & Usage	Heavy-duty, decorative post. Post has sign mounting channel on four sides. Use when mounting signs over 16 sq ft or when using a baseplate post longer than 90" Compatible with TCL, TCIL, PHX, PHXF, SBL and SBLF Series
Lengths	<b>12" x 12" Baseplate:</b> 40", 60", 90" or 120" <b>Direct Burial:</b> 60", 90" or 120"
Specifications	4" x 4" 0.115 Extruded aluminum post with end cap and 12" x 12" welded baseplate with gussets
Finish	Duranodic Bronze; Custom paint finishes available see below



### Recessed Frame

Description & Usage	Used to flush mount a sign within a wall or surface. Bolts to wall surface (fasteners not included). Custom sizes available upon request. Compatible with TCL, TCIL, PHX, PHXF, SBL and SBLF Series
Lengths	2"D with height and width dictated by sign size
Specifications	1/8" CNC routed aluminum bracket with pre-drilled mounting holes
Finish	Duranodic Bronze; Custom paint finishes available see below



#### Custom Paint Colors - Ready-mixed



For more information about these products visit [signal-tech.com](http://signal-tech.com) or contact [sales@signal-tech.com](mailto:sales@signal-tech.com)

# 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

**Signal-Tech**

*LED Directional Signs & Signals*

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