SURFACE TRACK (120/250V) • SPECIFICATIONS

GENERAL Lighting Track shall allow fixtures to be located anywhere along the track length. Fixtures shall be easily focused, switched, dimmed, accessorized and removed as desired. Track system shall have a twelve year warranty from date of shipment.

MECHANICAL Lighting Track shall be constructed of .070 (2mm) extruded aluminum with overall height of 1.42 (36mm) and overall width of 1.812 (46mm). Track shall have same overall dimensions and physical appearance for both one and two circuit models.

Track shall be available in nominal 4 foot (1.2m), 8 foot (2.4m), and 12 foot (3.7m) lengths, in Silver, Black, and White high temperature baked paint finish. Track shall be field cuttable to any length with a single cut.

Track system shall be available with End Feed, End Cap, Straight Mini-Joiner, Straight Joiner/Feeder, Flexible Joiner and L, T, and X Joiner/Feeders as standard components.

Track shall have the ability to be directly surface mounted. Track shall have pre-punched mounting slots for direct mounting to any surface. Track shall have the ability to: be mounted 1/2 inch (13mm) from a surface by extruded aluminum mounting clips, be suspended from a surface by a field cuttable stainless steel cable system, be suspended from a surface by a field cuttable steel stem system, and be mounted into UniTrack housing.

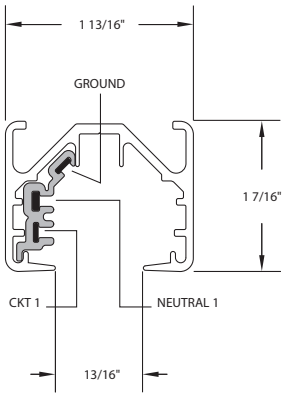
ELECTRICAL Lighting Track and components shall be UL and CUL listed, CE Certified, and comply with the National Electric Code standards for Lighting Track. One and two circuit Lighting Track shall be rated at 120/250 volt, 50/60 Hz. 2400 watts maximum each circuit. Each 20 amp/120 volt circuit shall be comprised of flat copper busbars and have a separate neutral busbar for each circuit busbar. The neutral busbar shall be oversized to be comparable to #10 gauge 30 amp wire to reduce the possibility of overheating due to non-linear loads and harmonics. **Track shall have integral wiring channels for six (6) additional #12 THHN wires to create three (3) additional 20 amp/120 volt circuits, which can be dropped into any Joiner/Feeder, for a total track power capacity of 100 amps.** A separate grounding busbar shall be integral in all track lengths. All busbars shall be insulated to prevent contact with aluminum extrusion.

Track shall have electric feed capability through all Joiner/Feeders (except Flexible Joiner and Straight Mini-Joiner) using either 1/2 or 3/4 U.S. trade size knock-outs (.875 diameter [22mm] or 1.125 diameter [29mm]). Joiner/Feeders can be electrically field modified by removing the Lexan™ cover and rerouting internal pre-wired jumpers. All Joiner/Feeders shall be available in Black, White, and Silver GE fiber reinforced Lexan™.

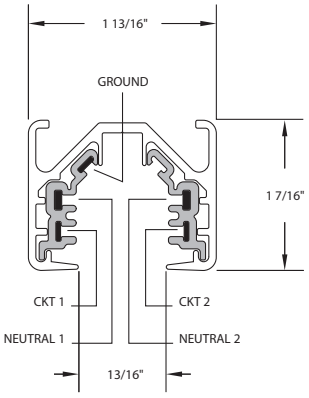
One and two circuit Lighting Track with separate neutral busbars shall have the ability to have each circuit separately dimmed as required when using standard voltage and low voltage fixtures with either magnetic or electronic transformers. Track shall have the ability to be dimmed or switched in selected sections in addition to dimming or switching an entire track configuration or track run.

FIXTURE FITTING INTERFACE Track shall accept GE fiber reinforced Lexan™ fixture fittings which positively lock into track and cannot be energized by the integral switch until safety interlock handle is in the closed position. Safety interlock shall also prevent fixture fitting removal from track unless the switch is in the "off" position. Upon insertion of fixture fitting into track, grounding connection from fixture fitting to track shall be automatically completed before any electrical contact is made with busbars. When removing fixture fitting from track, the grounding connection shall automatically be disconnected last. The fixture fitting shall recess into the track, creating a minimal profile below the track. Fixture fittings for magnetic low voltage fixtures shall be furnished with fuse of the correct ampere rating for integral transformer protection, and shall not be fused as a branch circuit.

One Ckt 120/250V Track

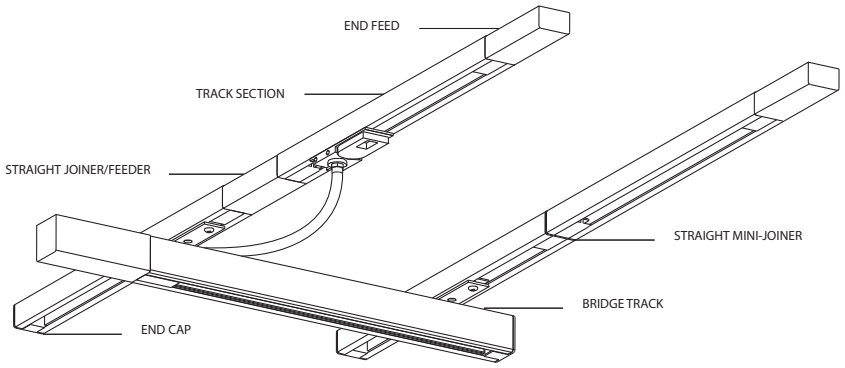


Two Ckt 120/250V Track

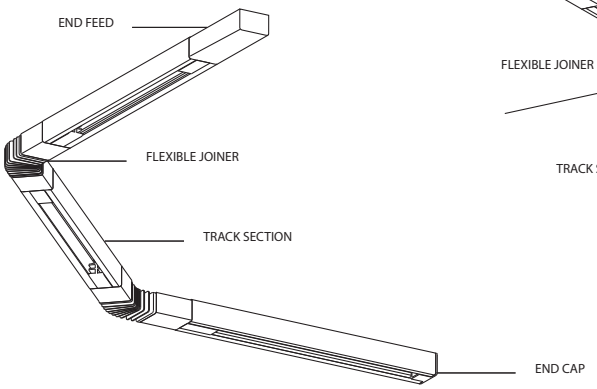


SURFACE TRACK (120/250V) • CONFIGURATIONS

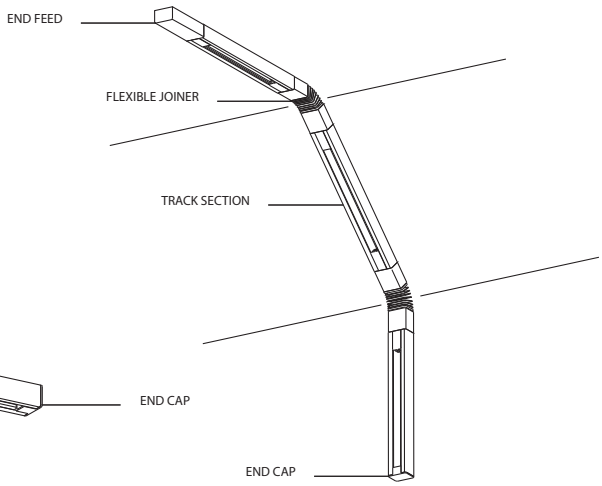
Bridge Track Application



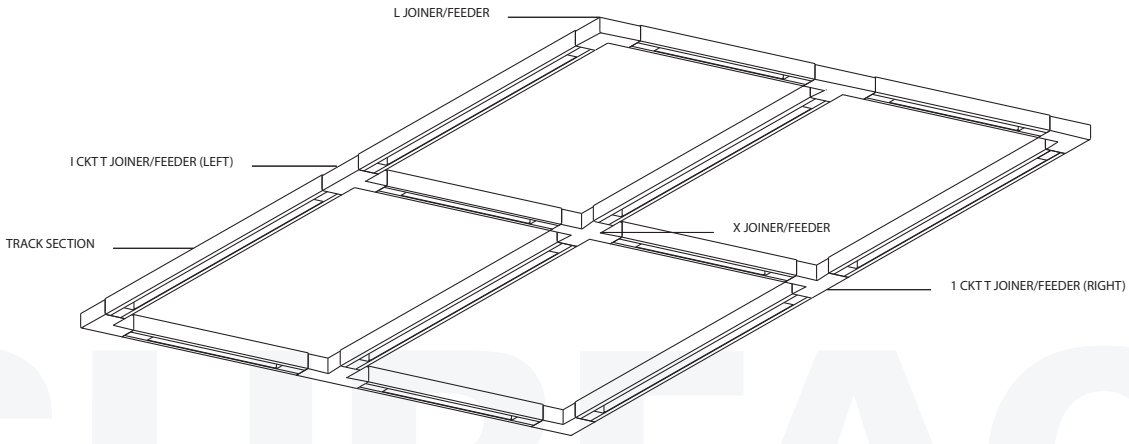
Ceiling Application/Horizontal Mount



Ceiling to Wall Application/Vertical Mount



One Circuit Configuration

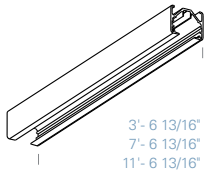


SURFACE TRACK (120/250V) • COMPONENTS

Key Features / Applications

UL and CUL listed, CE Certified, Dry Location • IBEW union made at LSI plant in USA • Specification grade heavy duty .070 (2mm) extruded aluminum track • 4 foot (1.2m), 8 foot (2.4m) and 12 foot (3.7m) field cuttable lengths • One circuit 20 amp or two circuit 40 amp capacity/120/250 volt • 100 amp total capacity when using integral wireways • Copper busbars equivalent to #12 AWG wire used as circuit and ground track conductors • Oversized copper busbars equivalent to #10 AWG wire used as neutral track conductors • Separate neutral track conductor used for each circuit • Separate copper grounding busbar used throughout track system • Black, White, and Silver finishes • All Joiner/Feeders, Flexible Joiners, Mini-Joiners, End Feeds and End Caps are injection molded of GE fiber reinforced Lexan™ • All Joiner/Feeders and Flexible Joiners are prewired and simply couple into track • All Joiner/Feeder circuits can be easily field modified by changing internal jumper wires • Fixture fitting recesses into track for minimum profile • LSI surface track can be mounted directly to any surface 5'-0" above finished floor.

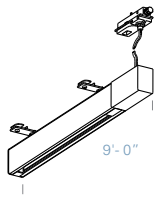
Surface Track Sections



120/250V Surface Track Sections are used in conjunction with an End Feed, End Cap and a variety of Joiner/Feeders to form track runs and configurations. Track Section lengths are nominal 4 foot (1.2m), 8 foot (2.4m) and 12 foot (3.7m) which are field cuttable.

Finish		Nominal Length 4 ft	8 ft	12 ft
Silver	One Ckt	31010	31020	31030
	Two Ckt	32010	32020	32030
Black	One Ckt	31210	31220	31230
	Two Ckt	32210	32220	32230
White	One Ckt	31310	31320	31330
	Two Ckt	32310	32320	32330

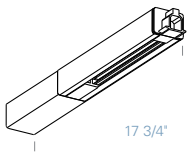
Bridge Track



120/250V Bridge Track is a complete, portable, field cuttable, surface UniTrack system that mechanically and electrically mounts to and spans parallel runs of LSI Track. Bridge Track provides an additional range of striking angles for track lighting fixtures or for centering a fixture over a target located between parallel runs of track up to 8 foot (2.4m) on center.

Finish		9 ft
Silver	One Ckt	31025
Black	One Ckt	31225
White	One Ckt	31325

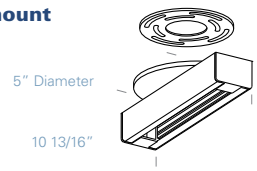
Security/Worklight Track



120/250V Security/Worklight Track is a separately fed one circuit Track Section, suitable for most LSI track fixtures, that integrates into any LSI Track run or configuration at any location. Consult fixture cutsheet. LSI fixtures (add suffix EF) mechanically lock into Security/Worklight Track by means of special hardware and do not have on/off switches.

Finish	All One Ckt 18" Joiner Section	18" End Feed Section	18" End Cap Section	18" Conduit End Feed Section
Silver	31050	31051	31052	31053
Black	31250	31251	31252	31253
White	31350	31351	31352	31353

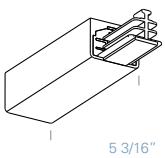
Unimount



120/250V Unimount is a compact canopy mount Track section which will accept most single LSI Track fixtures up to 500 watts.

Finish		
Silver	One Ckt	31161
Black	One Ckt	31261
White	One Ckt	31361

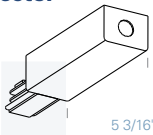
End Feed



120/250V End Feed is used in conjunction with a Canopy Kit for top feeding from a recessed outlet box and can also be top fed directly with cable.

Finish		
Silver	One Ckt	31100
	Two Ckt	32100
Black	One Ckt	31200
	Two Ckt	32200
White	One Ckt	31300
	Two Ckt	32300

End Feed for Conduit Connector

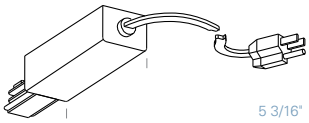


120/250V End Feed for Conduit Connector is used when feeding directly into the end of an End Feed. Connector supplied with 1/2" US trade size hole.

Finish		
Silver	One Ckt	31102
	Two Ckt	32102
Black	One Ckt	31202
	Two Ckt	32202
White	One Ckt	31302
	Two Ckt	32302

SURFACE TRACK (120/250V) • COMPONENTS

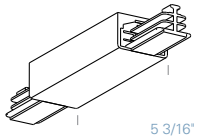
Portable Feed



120/250V Portable Feed is used when a portable or temporary track hookup is desired. Supplied with 15 foot #16 AWG-10 Amp/125 Volt 3 wire flexible cord with NEMA 5-15P grounding plug. Non-UL listed.

Finish		
Silver	One Ckt	**31101**
Black	One Ckt	**31201**
White	One Ckt	**31301**

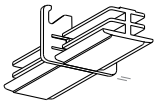
Straight Joiner/Feeder



120/250V Straight Joiner/Feeder is used to mechanically and electrically couple any two lengths of track in a straight line. Straight Joiner/Feeder can also be top fed to energize the track from a recessed outlet box when used in conjunction with appropriate Canopy Kit or can be top fed directly with cable.

Finish		
Silver	One Ckt Two Ckt	**31104** **32104**
Black	One Ckt Two Ckt	**31204** **32204**
White	One Ckt Two Ckt	**31304** **32304**

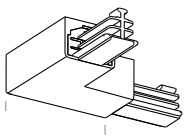
Straight Mini-Joiner



120/250V Straight Mini-Joiner is used to mechanically and electrically couple any two lengths of track in a straight line. Add .125 (3mm) for Straight Mini-Joiner when calculating overall lengths of straight runs or configurations (overall lengths are not the same as when using Straight Joiner/Feeder). Not for use as feeder.

Finish		
Silver	One Ckt Two Ckt	**31111** **32111**
Black	One Ckt Two Ckt	**31211** **32211**
White	One Ckt Two Ckt	**31311** **32311**

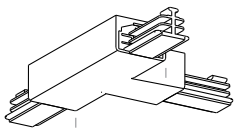
L Joiner/Feeder



120/250V L Joiner/Feeder is used to mechanically and electrically couple any two lengths of track in an L right angle configuration. This L Joiner/Feeder can also be top fed to energize the track from a recessed outlet box when used in conjunction with appropriate Canopy Kit or can be top fed directly with cable.

Finish		
Silver	One Ckt Two Ckt	**31105** **32105**
Black	One Ckt Two Ckt	**31205** **32205**
White	One Ckt Two Ckt	**31305** **32305**

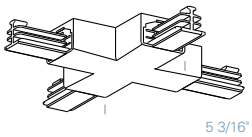
T Joiner/Feeder



120/250V T Joiner/Feeder is used to mechanically and electrically couple any three lengths of track in a T configuration. This T Joiner/Feeder can also be top fed to energize the track from a recessed outlet box when used in conjunction with appropriate Canopy Kit or can be top fed directly with cable. Internal Joiner wiring can be field modified. Note that in the one circuit version, a right or a left T must be ordered and must be used directly opposite each other when used in a configuration so that busbar continuity is maintained. For two circuit track, a left and right T is not necessary.

Finish		Left Joiner	Right Joiner
Silver	One Ckt Two Ckt	**31106** **32108**	**31107** **32108**
Black	One Ckt Two Ckt	**31206** **32208**	**31207** **32208**
White	One Ckt Two Ckt	**31306** **32308**	**31307** **32308**

X Joiner/Feeder

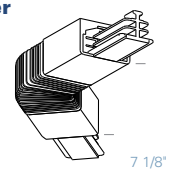


120/250V X Joiner/Feeder is used to mechanically and electrically couple any four lengths of surface track in an X configuration. This X Joiner/Feeder can also be top fed to energize the track from a recessed outlet box when used in conjunction with appropriate Canopy Kit or can be top fed directly with cable.

Finish				
Silver	One Ckt	**31109**	Two Ckt	**32109**
Black	One Ckt	**31209**	Two Ckt	**32209**
White	One Ckt	**31309**	Two Ckt	**32309**

SURFACE TRACK (120/250V) • COMPONENTS

Flexible Joiner



120/250V Flexible Joiner is used to mechanically and electrically couple any two lengths of surface mount track to create obtuse angles from 90° through 270°. The Flexible Joiner can be flexed in either horizontal or vertical planes. Not for use as feeder.

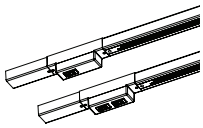
Finish				
Silver	One Ckt	**31112**	Two Ckt	**32112**
Black	One Ckt	**31212**	Two Ckt	**32212**
White	One Ckt	**31312**	Two Ckt	**32312**

End Cap

120/250V End Cap is used for mechanically ending any straight run, individual Track Section, or open configuration Track Section.

Finish		
Silver	One & Two Ckt	**30103**
Black	One & Two Ckt	**30203**
White	One & Two Ckt	**30303**

Current Limiter



LSI Track Current Limiters integrate directly into 1 and 2 circuit track runs in Black, White and Silver finishes. Available amperage rating include: (0.5) amp (60 watts), (1) amp (120 watts), (1.5) amp (180 watts), (2) amp (240 watts), (2.5) amp (300 watts), (3) amp (360 watts), (5) amp (600 watts), (8) amp (960 watts) and (12) amp (1440 watts). Other amperages available, consult factory.

California Energy Commission (CEC) approved and Title 24 compliant.

See spec sheet on LSI website for ordering information.

Adjustable Angle Bracket

The Adjustable Angle Bracket for Flex Joiner is designed to attach to cable mounted track. This assembly locks the set angle of a Flex Joiner when there is no rigid mounting means.

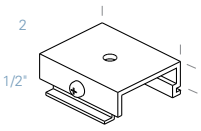
Finish		
Silver	One & Two Ckt	**30116**
Black	One & Two Ckt	**30216**
White	One & Two Ckt	**30316**

Raceway Cover

Field cuttable Raceway Covers are used to enclose additional lay-in circuit wiring in top section of track.

	Nominal Length		
Finish	**4 Ft**	**8 Ft**	**12 Ft**
Galvanized	**30613**	**30614**	**30615**

Surface Hanger Clip Kit

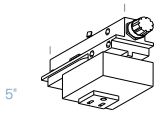


Extruded Surface Hanger Clips space track .50 (13mm) from a surface to create a floating look or when mounting to an uneven surface. For normal usage, LSI recommends two hanger clips per 4 foot (1.2m) length, two hanger clips per 8 foot (2.4m) length and three hanger clips per 12 foot (3.7m) length. Two clips per package. 1/4" diameter hole.

Finish		
Silver	One & Two Ckt	**30025**
Black	One & Two Ckt	**30225**
White	One & Two Ckt	**30325**

SURFACE TRACK (120/250V) • COMPONENTS

Power Receptacle Adapter



120/250V Power Receptical Adapter provides a convenient switched and fused U-Ground receptacle for power and is rated at 5A-120V. ETL listed.

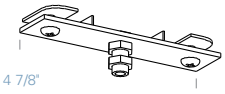
Finish		
Silver	One & Two Ckt	**31160**
Black	One & Two Ckt	**31260**
White	One & Two Ckt	**31360**

Display Hook

Display Hook is used to mechanically hang an item from the track without electrifying it. Do not exceed 20 lbs. at minimum spacing of two feet.

Finish		
Silver	One & Two Ckt	**30761**

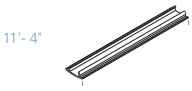
Weight Support Bar



Weight Support Bar provides threaded nipple and nuts to mount an item to track without electrifying it. Do not exceed 20 lbs. at minimum spacing of two feet. Nipple size 1/8-27 NPS (.406 diameter).

Finish		
Silver	One & Two Ckt	**30762**

Track Closure Cover



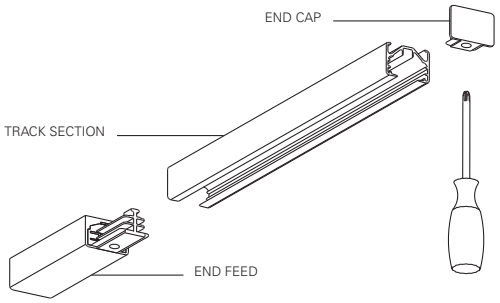
Field cuttable Noryl Track Closure Covers are used to enclose the open face of the track, and simply snap into place.

	Nominal Length
Finish	**12 Ft**
Silver	**30167**
Black	**30267**
White	**30367**

SURFACE TRACK (120/250V) • INSTALLATION

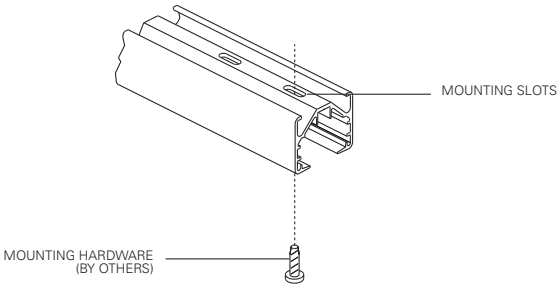
General Notes

When installing or using this track system, basic safety precautions should always be followed, including the following: Read all instructions. Do not install this track in damp or wet locations. Do not install any part of the track system less than five feet from floor. Do not install any fixture assembly closer than six inches from any curtain or similar combustible material. Disconnect electrical power before adding to or changing the configuration of the track. Check with a qualified electrician. Do not attempt to energize anything other than lighting track fixtures on the track. To reduce the risk of fire and electric shock, do not attempt to connect power tools, extension cords, appliances and the like to the track. Install per NEC and local codes. Save these instructions.



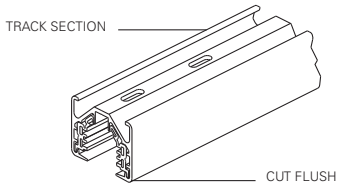
Assembling

Insert End Cap, End Feed or any other Joiner/Feeder completely into Track Section and tighten the recessed Phillips head screw. Do not use excessive force when inserting components into Track Section.



Mounting

Fasten track directly to surface through pre-punched mounting slots with hardware (by others) capable of withstanding a 50 lb. pull. Mount track in compliance with NEC Lighting Track Article #410-101 (Installation), #410-104 (Fastening) and any other applicable codes. To prevent distortion of the track opening which may prevent insertion of fixture fittings, do not over tighten mounting screws. LSI recommends a minimum of two mounting points per section of track. LSI track can be mounted on centers up to 6'- 0".



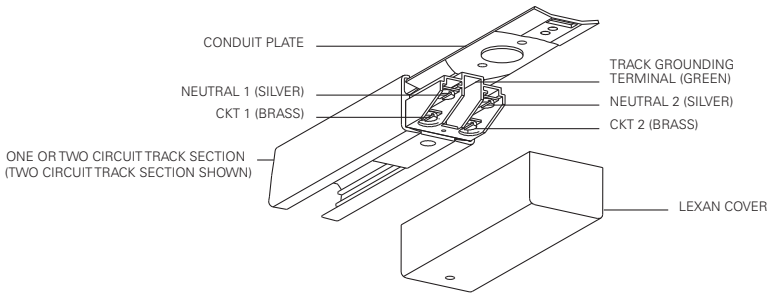
Field Cutting

LSI track can be easily field cut using a sharp hacksaw or a chop saw with a blade for non-ferrous metals, such as Oldham commercial carbide series metal blade. Together, cut the aluminum track, Noryl™ insulation, and copper with one straight cut. All pieces must be exactly the same length. Be sure to remove any burrs on the aluminum or the copper as this may affect the electrical and mechanical interconnection of components to track. Do not cut track to less than one foot in length.

SURFACE TRACK (120/250V) • INSTALLATION

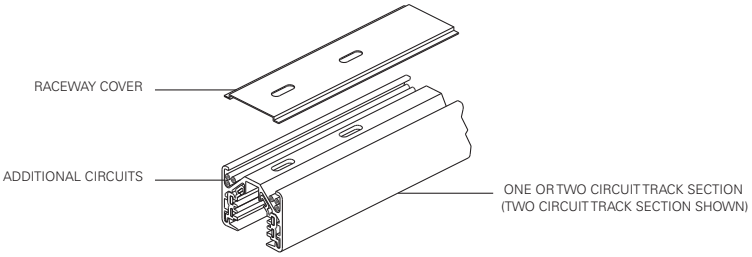
Electrical

Remove the Lexan™ cover from any End Feed or Joiner/Feeder, bring wires through combination 1/2, 3/4 U.S. trade size knock-out (.875 diameter [22mm], 1.125 diameter, [29mm]) in conduit plate and attach conductors to identified terminals. Joiner/Feeders can be electrically field modified after removal of Lexan™ cover by rerouting internal pre-wired jumpers.



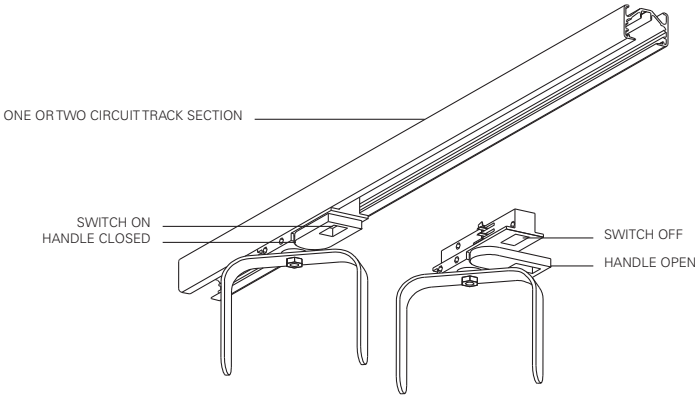
Additional Circuits

LSI Track has integral wiring channels for six additional #12 THHN wires to create three additional 20 amp circuits with separate neutrals. Place conductors in wiring channels and slide raceway covers into track prior to mounting.



Installing LSI Fixtures

To insert a fixture fitting into the track, the switch must be in the "off" position, with the handle open. Insert the fixture fitting straight up into the track until it seats evenly, close handle completely, switch on. If using one circuit track, make sure that the brass contacts which protrude from the side of the fixture fittings are inserted facing the copper busbars. If using two circuit track, inserting the fixture fitting in one direction will connect to circuit one. Removing and reversing the direction of the fitting will connect to circuit two.



TYPICAL WIRING DIAGRAMS

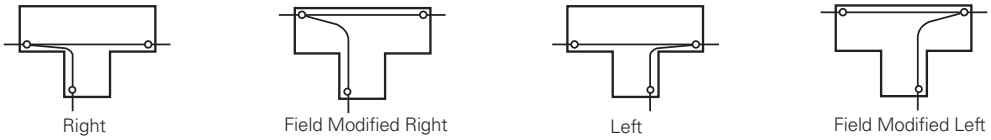
Diagrams apply to 120V Surface Track, 277V Surface Track and Recessed Track Systems

Single Circuit

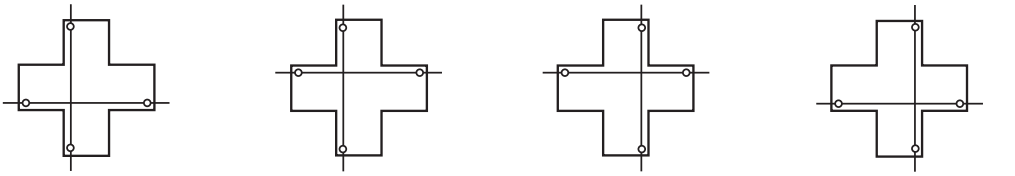
Straight Joiner/Feeder

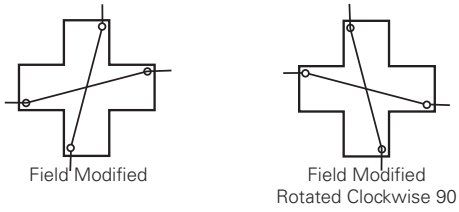
L Joiner/Feeder

T Joiner/Feeder



X Joiner/Feeder





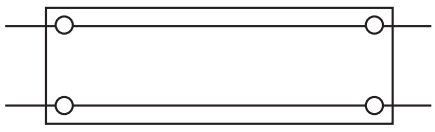
Flexible Joiner

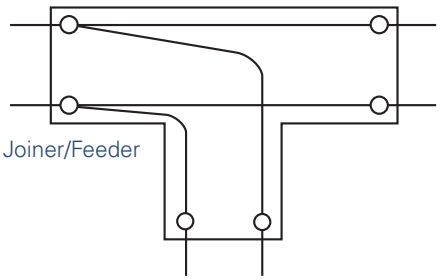
Notes:

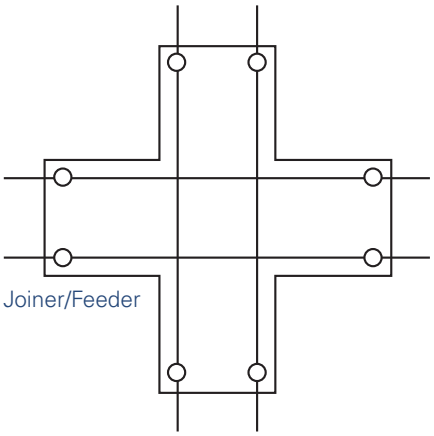
All diagrams shown are installed view, not RCP.

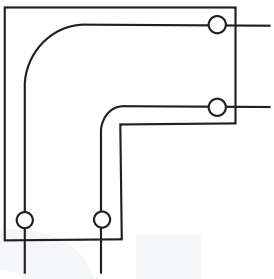
Except as noted, all modifications can be done simply and quickly on the job with a Philips and straight blade screwdriver

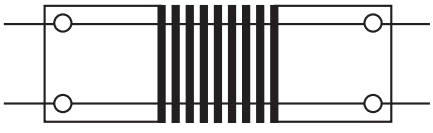
Two Circuit











* Prewired internal jumpers cannot be modified.