Q-HEX-mini-DC

12V or 24V DC Power Supply - 10W–60W



- Designed for outdoor and direct burial use
- Specifically designed to work with the Q-TRIX R-50
- Features a compact design
- Supports loads up to 60W
- Offers output voltages of either 12V or 24V DC

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
Q-HEX			

Sample Part Number: **Q-HEX-M10W-DC-120V-12VDC**

1 PRODUCT	2 WATTAGE	3 PRIMARY VOLTAGE	4 SECONDARY VOLTAGE
Q-HEX	M10W-DC M20W-DC M60W-DC	120 60Hz 277 60Hz	12VDC 24VDC

COMPATIBLE LEDS

STATIC WHITE

SW24/1.5-4.0 SW-DR24/1.5-4.0 SHLD-SW24/1.5-4.0 SW-SCOB24/1.5-4.0	✓
SW24/5.0, SW-HE, SW-HE+ SW-DR24/5.0, SW-HE-DR SHLD-SW24/5.0, SHLD-SW-HE SW-SCOB24/5.0	
SW-SD24/1.0-4.0	✓
SW-SD24/6.0	
SW-IA	
SW-XT	✓

OTHER

DW-HE Tunable Applications	
DW-HE Warm Dim Applications	
WD	
SC	
RGB	
RGBW, RGBW-HE	

SHEETS

Q-SHEETS SW	
Q-SHEETS DW Tunable Applications	
Q-SHEETS DW Warm Dim Applications	
Q-SHEETS RGB	
Q-SHEETS RGBW	

MICRO 5

MICRO 5-SW	✓
MICRO 5-DW Tunable Applications	
MICRO 5-DW Warm Dim Applications	
MICRO 5-RGB	

PRODUCT INFORMATION

- 10 year warranty
- Outdoor, direct burial, low voltage driver
- Power ratings of 10W-60W
- Fully dimmable with MLV dimmer
- Easy to connect and pull wire through protective tube
- All connections should be made with silicone filled wire nuts
- Landscape Lighting
  - CSA C22.2 No. 250.7-07 Extra-low-voltage Landscape Lighting Systems
  - UL 1838 Low Voltage Landscape Lighting Systems
- Low Voltage Lighting
  - CSA C22.2 No. 250.0-08 Luminaires
  - UL 2108 Low Voltage Lighting Systems

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Q-HEX-mini-DC

12V or 24V DC Power Supply - 10W–60W

VOLTAGE DROP CHART

Distances shown reflect a 5% voltage drop (95% of rated voltage delivered) — the maximum recommended run.

No Dimming - use primary tap #1	With Dimming - use primary tap #2

SECONDARY TAP 2, 24V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	2293	1441	906	571	359	226
30	1146	721	453	285	179	113
45	764	480	302	190	120	75
60	573	360	227	143	90	56

SECONDARY TAP 2, 22V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER						

SECONDARY TAP 3, 26V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	4841	3043	1913	1204	757	476
30	2420	1522	957	602	378	238
45	1614	1014	638	401	252	159
60	1210	761	478	301	189	119

SECONDARY TAP 3, 24V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
15	2028	1275	802	505	317	199
30	1014	638	401	252	159	100
45	676	425	267	168	106	66
60	507	319	200	126	79	50

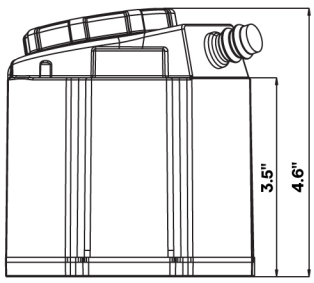
SECONDARY TAP 2, 12V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	860	541	340	214	134	85
20	430	270	170	107	67	42
30	287	180	113	71	45	28
40	215	135	85	53	34	21
50	172	108	68	43	27	17
60	143	90	57	36	22	14

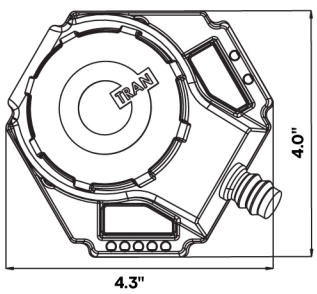
SECONDARY TAP 2, 11V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
TAP 2 NOT RECOMMENDED FOR USE WITH DIMMER						

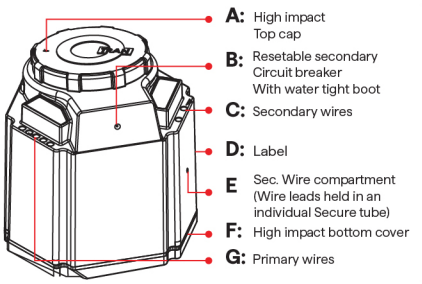
SECONDARY TAP 3, 13V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	1815	1141	717	452	284	179
20	908	571	359	226	142	89
30	605	380	239	151	95	60
40	454	285	179	113	71	45
50	363	228	143	90	57	36
60	303	190	120	75	47	30

SECONDARY TAP 3, 12V						
Load Wattage (W)	8 AWG	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
10	761	478	301	189	119	75
20	380	239	150	95	59	37
30	254	159	100	63	40	25
40	190	120	75	47	30	19
50	152	96	60	38	24	15
60	127	80	50	32	20	12

1 PRODUCT - DIMENSIONS









Transformer Unit

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Q-HEX-mini-DC

12V or 24V DC Power Supply - 10W–60W

2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
M10W-DC	10W	12VDC/24VDC	0.15 A	0.10 A
M20W-DC	20W	12VDC/24VDC	0.30 A	0.15 A
M60W-DC	60W	12VDC/24VDC	0.90 A	0.40 A

HOUSING

- Q-HEX-Mini must be used with Q-TRIX-R50 housing

CSA CLASS

Input	Output (MAX)	CSA Class
120V	12VAC	3426-04 Luminaires - Landscape Lighting Systems - Component 3426-94 Luminaires - Landscape Lighting Systems - Component - US
120V-277V	12VAC	3426-94 Luminaires - Landscape Lighting Systems - Component - US
120V-277V	24VAC	3425-15 Luminaires - Low Voltage Lighting Systems 3425-95 Luminaires - Low Voltage Lighting Systems - US

COMPATIBLE DIRECT BURIAL PRODUCTS

Q-TRIX-R50



IP68 wet listed direct burial enclosure for Q-HEX-mini

Q-CLIK



Watertight fitting for entryway in and out of QTL housing

Q-WIRE



Highly efficient, long-lasting wire

Q-TWO



Underground low voltage UF splice kit

QW-STRIPPER



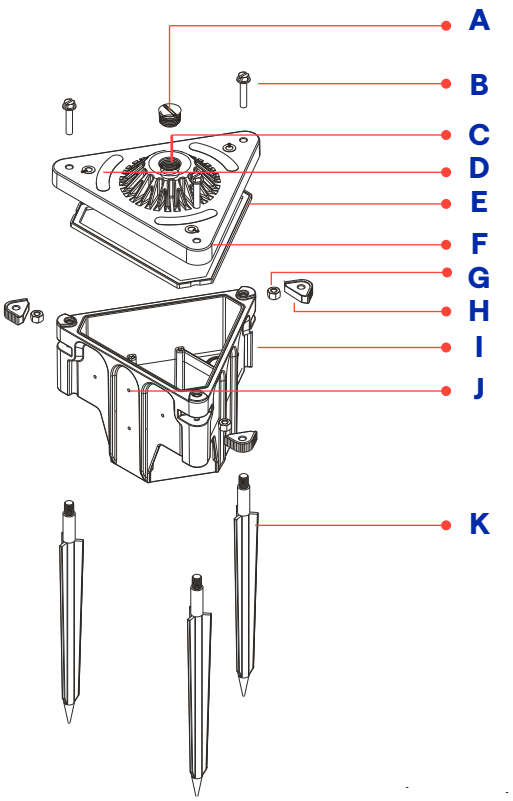
UF cable outer jacket strip tool

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Q-TRIX-R50 & Q-HEX-mini

Installation Instructions

Q-TRIX (R) Remote Box Details



A: 1/2" NPT Threaded Cap

B: 1/4-20 Bolts (3x)

C: 1/2" NPT THREADED POST
(For mounting a path light or Accent light fixture)

D: FIELD WRITING TRACK
(For unit locating)

E: Housing GASKET

F: HIGH IMPACT Door

G: 1/4-20 Nuts

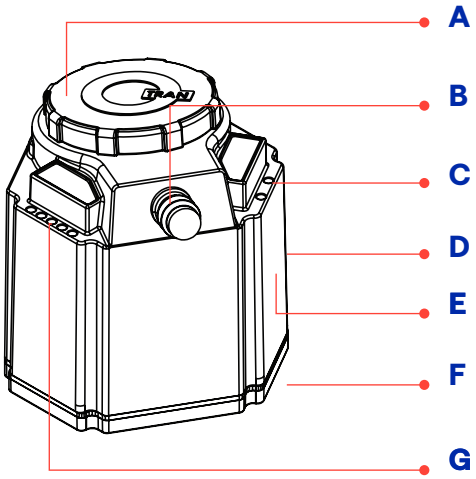
H: Nut Holder

I: HIGH IMPACT Housing

J: DRILL GUIDE - Drill and attach fittings
(Q-Click 1/2" & 3/4" fittings permitted)

K: Planting Stakes
(Secures unit to the ground 3x)

Q-HEX-mini (Power Supply) Details



A: HIGH IMPACT
Top Cap

B: Resetable secondary
CIRCUIT BREAKER
with water tight boot

C: Secondary wires

D: Label

E: Sec. WIRE COMPARTMENT
(wire leads held in an individual Secure Tube)

F: HIGH IMPACT BOTTOM COVER

G: Primary wires

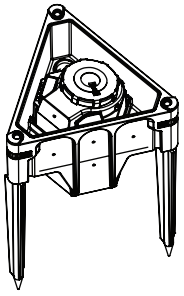
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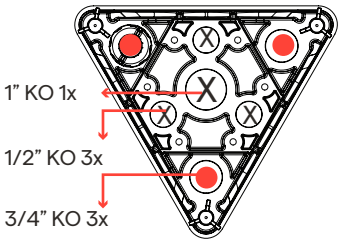
Specification subject to change. Rev-06-29-26

Q-TRIX-R50 & Q-HEX-mini

Installation Instructions

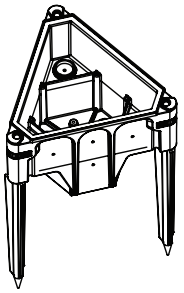
Q-TRIX-R50 with Q-HEX-mini

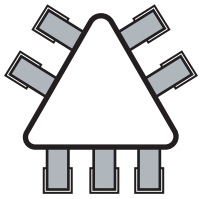




*Do not use KO (Knock Outs)marked with X when installing the Q-HEX MINI with the Q-TRIX-R50.

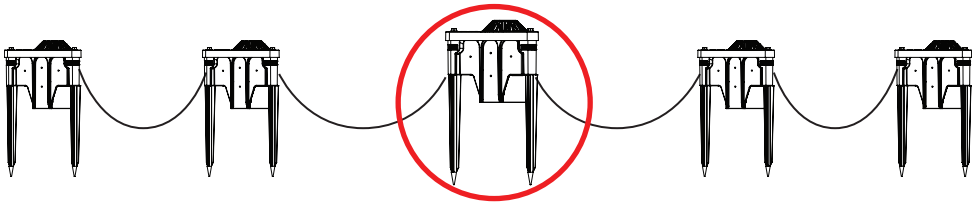
Q-TRIX-R50 without Q-HEX-mini



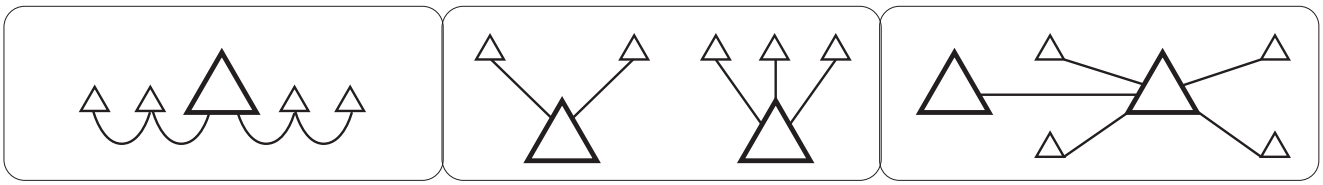


Splice J-Box
(Use water tight connectors
Ex: Q-CLIK MST/NPT connectors.
Connectors sold seperately)

Q-TRIX-R50 (LOAD DISTRIBUTION REMOTE SPLICE BOX)

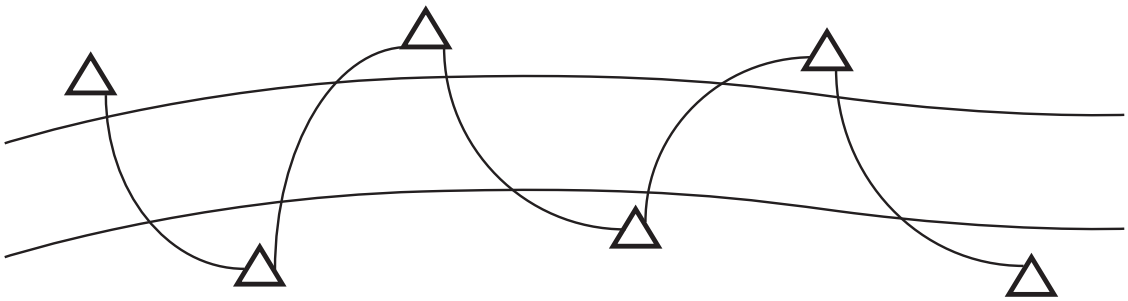


Q-TRIX Direct Burial Design Configuration



(1) Feed from Q-TRIX-B160 unit to Q-TRIX-R50 **(2) Feed from Q-TRIX-B160 unit to Q-TRIX-R50** **(3) Q-TRIX-B160 to B160 to R50 remote boxes**

Pathway example:



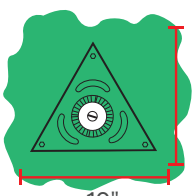
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Q-TRIX-R50 & Q-HEX-mini

Installation Instructions

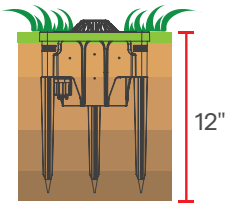
1 EXCAVATE (DIG HOLE)

Dig 10" x 10" x 12" hole that Q-TRIX-R50 housing will fit inside as shown.



TOP VIEW
(Hole Length & Width)

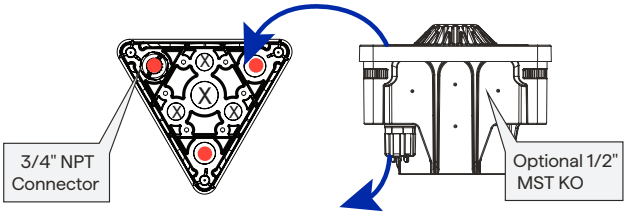
Bury Q-TRIX-R50 in a 10x10x12 inch dug up hole.



SIDE VIEW
(Hole Depth)

2 KNOCKOUT OR DRILL HOLES

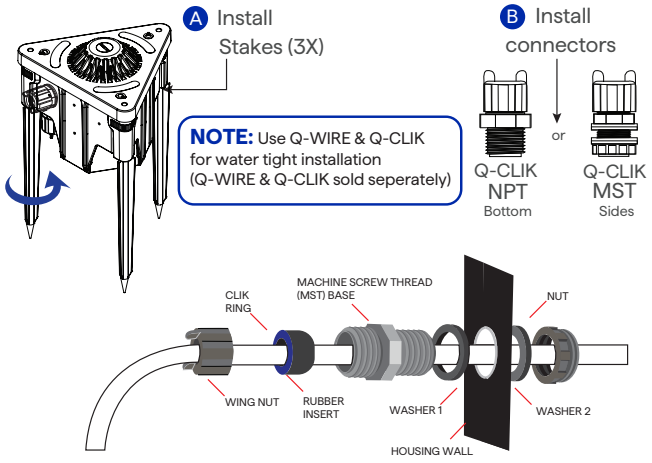
Drill knock out holes for Wire Connectors.
Example: Q-CLIK connectors.



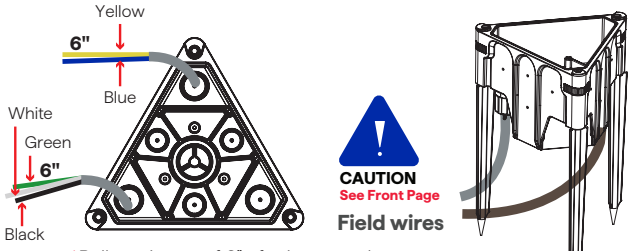
*Use only these Drill sizes for side Holes: 7/8 for 1/2" KO and 1 1/8 for 3/4" KO

NOTE: Drill only TOP KO holes of Q-TRIX-R50 housing,or useonly outer Knockouts on the bottom when installing Q-HEX mini power supply unit. Maximum 3x Q-CLIK connectors can be installed at the bottom or 3x on either side or the Housing. 3xconnectors of 1/2" or 3/4" on each side. Use 3/4" connector on bottom. (Q-CLIK SOLD SEPARATELY)

3 INSTALL CONNECTORS & STAKES

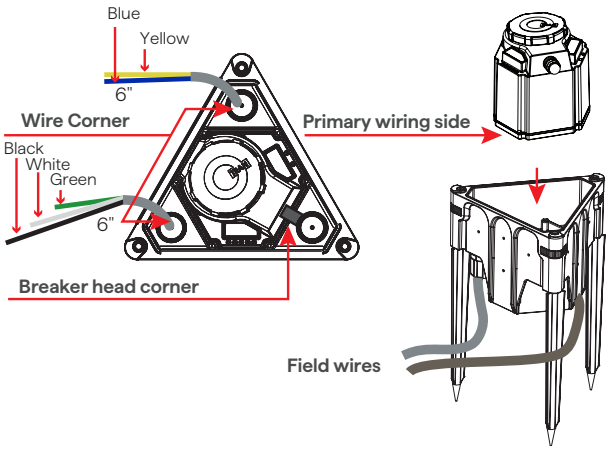


4 RUN FIELD WIRES TO HOUSING



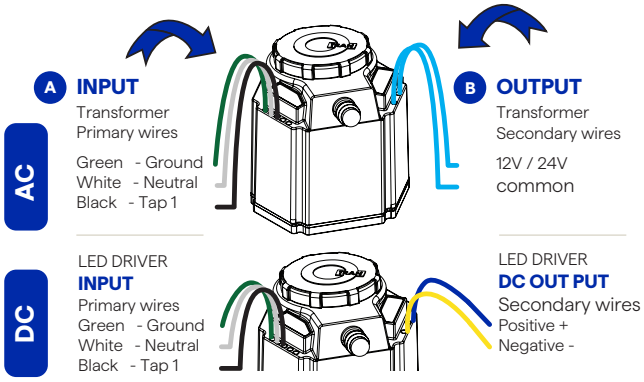
*Pull maximum of 6" of primary and Secondary wires into Q-TRIX-R50 housing.

5 LOWER Q-HEX-mini INTO Q-TRIX-R50



6 PREPARE Q-HEX-mini WIRE

Understand the following highlighted wires
NOTE: Strip ends for wire nut connection



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Specification subject to change. Rev-06-29-26

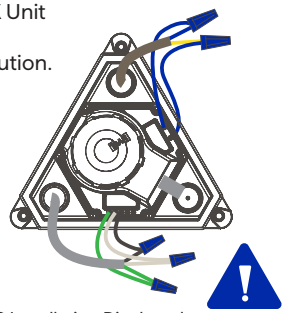
Q-TRIX-R50 & Q-HEX-mini

Installation Instructions

7 CONNECT WIRES

- Use Water tight silicone filled wire nuts to connect all wires in the Q-TRIX Unit (wire nuts not provided).
- Use Q-TRIX-R20 remote box for additional wire splicing or power distribution. (Additional Q-TRIX-R20 remote box sold seperately).

AC	DC
● Connect INPUT load to Primary white / black and green wire ● Connect OUTPUT load to secondary 12v or 24v wire and common wire.	● Connect INPUT load to Primary Blue wires VAC ● Connect OUTPUT load to secondary +Yellow / - Black wire



AC Installation Displayed

CAUTION

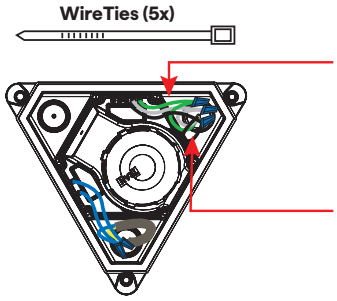
Secondary Breaker Amperage

Amps	Max 12V Load	Max 24V Load	Wire Color
2.5	-	60W	Brown/White
5	60W	120W	Brown/White
7.5	-	180W	Brown/White
10	120W	240W	Brown/White
12.5	-	300W	Brown/White
15	180W	-	Brown/White
20	240W	-	Brown/White
25	300W	-	Brown/White

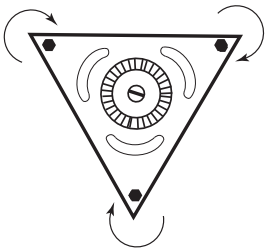
NOTE: Wires may be solid or striped

8 PREPARE UNIT TO BE BURIED

- Cover Housing and tightened (3x) 1/4-20 stainless steel Door Bolts by alternating bolt turns. Tighten bolts at a Maximum torque of 25" lbs.

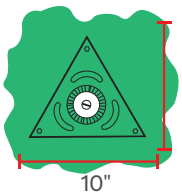


AC Installation displayed



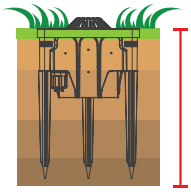
9 BURY Q-TRIX WITH 2" TOP EXPOSED

BURY Q-TRIX WITH 2" TOP EXPOSED



TOP VIEW
(Hole Length & Width)

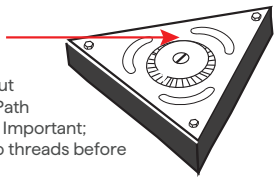
Bury Q-TRIX-R50 in a 10x10x12 inch dug up hole.



SIDE VIEW
(Hole Depth)

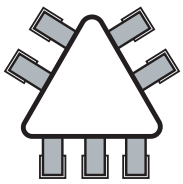
OPTIONAL FIXTURE INSTALLATION ON Q-TRIX UNIT

Remove cap and expose 1/2" NPT threads and knockout center KO to install Path light, or accent light. Important; squeeze silicone into threads before mounting fixture.



10 OPTIONS

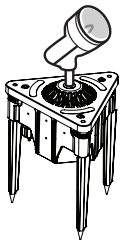
Q-TRIX-R50 SPLICE BOX



Q-TRIX-R50 Housing can be used for wire splicing and power distribution (Q-CLIK 1/2" & 3/4" NPT or MST connectors can be used)

Diagram A

Q-TRIX FIXTURE MOUNT



1/2" NPT threaded Door allows fixture to be mounted on Q-TRIX unit.

Diagram B

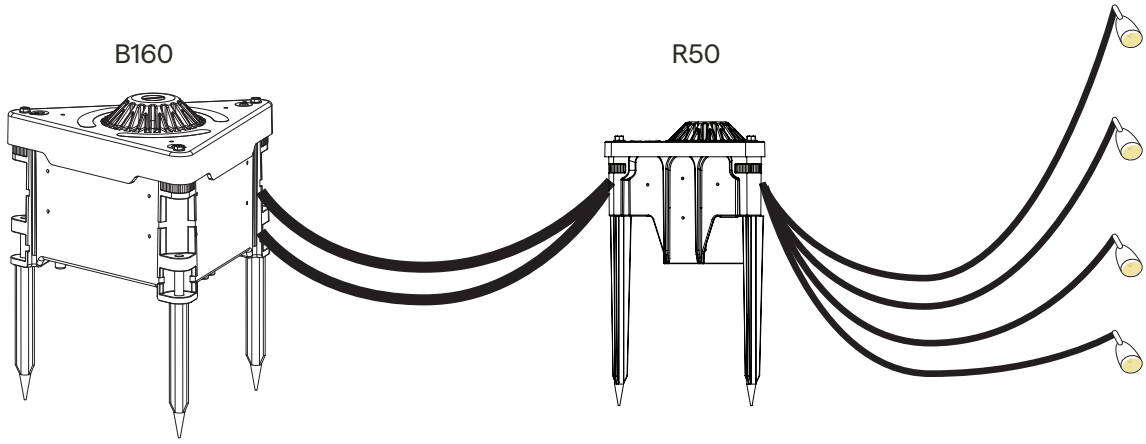
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Q-TRIX-R50 & Q-HEX-mini

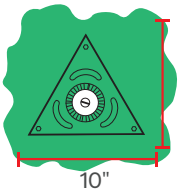
Installation Instructions

Q-TRIX-R50 DIRECT BURIAL SPLICE BOX

Q-TRIX-R50 junction box allows for multiple load distribution from Q-TRIX-B160 unit and can stand alone as a Direct Burial junction box.

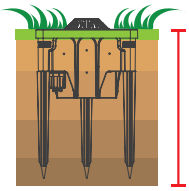


Bury Q-TRIX-R50 with 2" top exposed



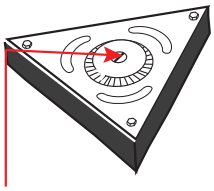
TOP VIEW
(Hole Length & Width)

Bury Q-TRIX-R50 in a 10x10x12 inch dug up hole.

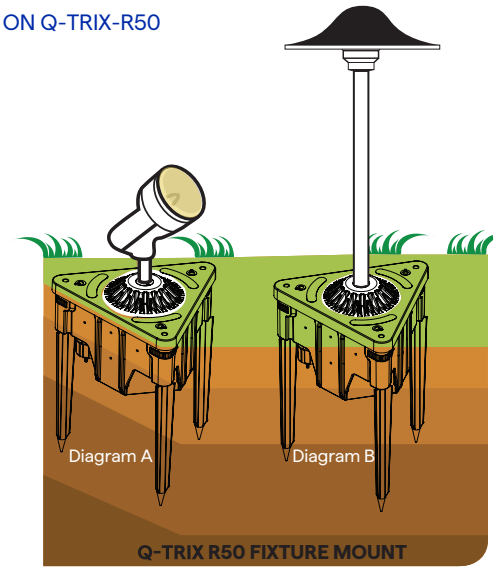


SIDE VIEW
(Hole Depth)

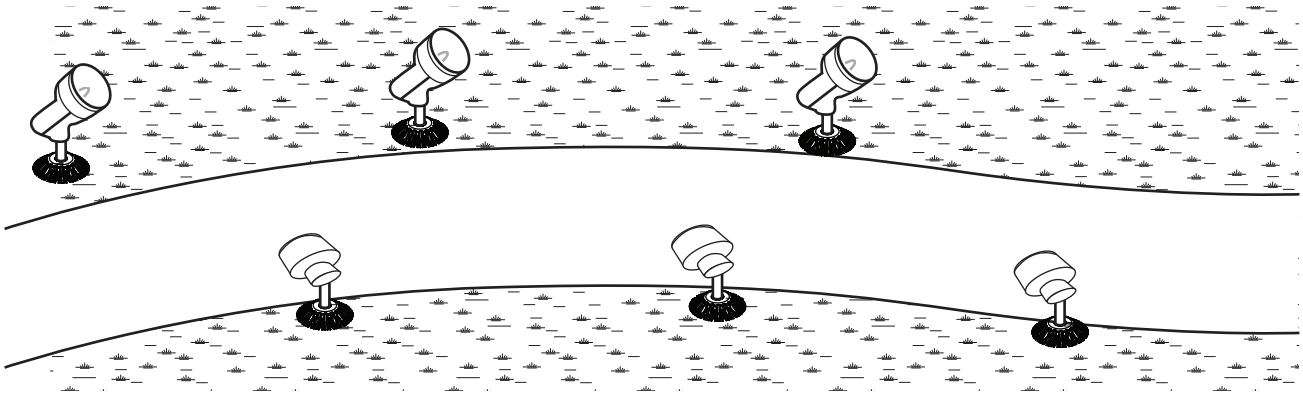
OPTIONAL FIXTURE INSTALLATION ON Q-TRIX-R50 JUNCTION BOX



Remove cap and expose 1/2" NPT threads and knockoutcenter KO to install Path Light, or Accent Light. Important; squeeze silicone into threads before mounting fixture.
(See Diagram A & B)



Pathway example:



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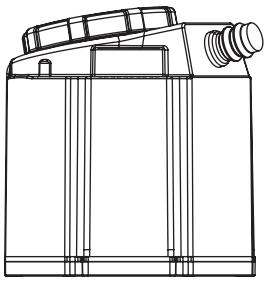
Specification subject to change. Rev-06-29-26

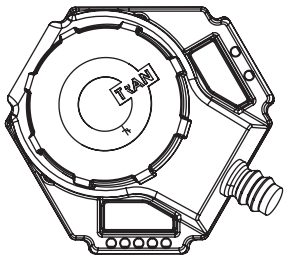
MATERIAL RECYCLING

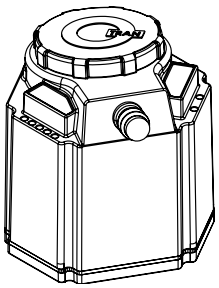
Q-HEX-mini

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.







E

Fully Potted Power Supply

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