# Top Mount, Single Keyway with Mini-Change® Home Run Connector

Connectorized home run cable connector version for maximum flexibility. Flexibility with 4 and 8 port configurations.

PNP and NPN versions for use with a variety of DC sensors.

## NEW

<table>
<thead>
<tr>
<th>HOME RUN CONNECTOR MALE FACE VIEW</th>
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</table>

### HOME RUN CONNECTOR PINOUTS

<table>
<thead>
<tr>
<th>Port</th>
<th>PIN OUTS</th>
<th>Port</th>
<th>PIN OUTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>port #1 load</td>
<td>7</td>
<td>n/c</td>
</tr>
<tr>
<td>2</td>
<td>port #2 load</td>
<td>8</td>
<td>n/c</td>
</tr>
<tr>
<td>3</td>
<td>port #3 load</td>
<td>9</td>
<td>gnd</td>
</tr>
<tr>
<td>4</td>
<td>port #4 load</td>
<td>10</td>
<td>V+</td>
</tr>
<tr>
<td>5</td>
<td>n/c</td>
<td>11</td>
<td>V-</td>
</tr>
<tr>
<td>6</td>
<td>n/c</td>
<td>12</td>
<td>n/c</td>
</tr>
</tbody>
</table>

### FUNCTIONAL WIRING

#### PNP SCHEMATIC, FIG 1

**FIG:** 3  
**BTY401P-FBB**

#### NPN SCHEMATIC, FIG 2

**FIG:** 3  
**BTY401N-FBB**

### 90° FEMALE SINGLE-ENDED HOME RUN CABLE PVC JACKET & #16 AWG CONDUCTORS

<table>
<thead>
<tr>
<th>FIG</th>
<th>FIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>302101A04M050</td>
</tr>
<tr>
<td>6</td>
<td>302101A04M050</td>
</tr>
</tbody>
</table>

### FEMALE 90°/MALE HOME RUN CABLE EXTENSION PVC JACKET & #16 AWG CONDUCTORS

<table>
<thead>
<tr>
<th>FIG</th>
<th>FIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>332121A04M050</td>
</tr>
<tr>
<td>5</td>
<td>332121A04M050</td>
</tr>
</tbody>
</table>

### FEMALE RECEPTACLE WITH #18 AWG PVC 12" LEADS TO ACCEPT HOME RUN CABLE EXTENSION

<table>
<thead>
<tr>
<th>FIG</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>3R2104A16A120</td>
</tr>
<tr>
<td>7</td>
<td>3R2104A16A120</td>
</tr>
</tbody>
</table>

*Use 4P/3W male single keyway, Micro Change™ cordsets page 94 or female/male cordsets page 96 to connect to those MPIS ports*
Specifications

MECHANICAL
INSERT: PA
HOUSING: GLASS-FILLED PBT
RECEPTACLE HOUSING: NICKEL-PLATED BRASS
ID LABEL: ABS

HOME RUN CONNECTOR CABLEING
YELLOW, PVC CABLE JACKET, #18 AWG AND #22 AWG CABLING AND PVC CONDUCTOR INSULATION OVER 41 X #34 (#18 AWG) AND 26 X #36 (#22 AWG) COPPER STRANDING, UL LISTED VW-1 STYLE 2661, CSA CERTIFIED AWM CLASS II GROUP A/B FT1 105°C, 600 V

OUTSIDE DIAMETER: 0.71" (18.0mm)

ELECTRICAL
VOLTAGE RATING: 10-30V DC
AMPERAGE: 4A PER PORT, 12A TOTAL PER MPIS UNIT
INDICATING LIGHTS: GREEN LED-POWER, YELLOW LED-FUNCTION
AVERAGE LED EXPECTANCY: 100,000 HOURS
ENVIRONMENTAL PROTECTION: IP68, NEMA 6P
AMBIENT OPERATING TEMPERATURE: -13°F TO 194°F (-25° C TO 90°C)

CERTIFICATIONS
UL: UL RECOGNIZED, FILE NO. E46237
CSA: CSA CERTIFIED, FILE NO. LR6837

SCHEMATICS

FIG 1

FIG 2

Gross Automation (877) 268-3700 · www.bradharrisonsales.com · sales@grossautomation.com
**Top Mount, Single Keyway with Mini-Change® Home Run Connector**

**HOME RUN CABLES**

**FEMALE 90° SINGLE-ENDED**

![Diagram of Female 90° Single-Ended Connector]

**FEMALE 90°/MALE STRAIGHT DOUBLE-ENDED**

![Diagram of Female 90°/Male Straight Double-Ended Connector]

**FEMALE RECEPTACLE**

![Diagram of Female Receptacle]

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**MPIS® Molded JXN Boxes**

**FIG 7**

**FIG 5**

**FIG 6**

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**www.connector.com**

**FAX 1-847-272-8133**

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