



# SENSOR-LINK MINI-MIZER®



## MOLDED CONNECTOR ASSEMBLIES

### STANDARD MINI-MIZER WIRING SEQUENCE

Panel Mounts and Cable Assemblies Conductor Color  
Code per Contact Position:

#### INDUSTRIAL "A & C" Size

##### 2 CONTACTS

- |    |     |  |
|----|-----|--|
| 1. | WHT |  |
| 2. | BLK |  |

##### 3 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | (GROUND) GRN |  |
| 2. | BLK          |  |
| 3. | WHT          |  |

##### 4 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | BLK          |  |
| 2. | WHT          |  |
| 3. | RED          |  |
| 4. | (GROUND) GRN |  |

##### 5 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | WHT          |  |
| 2. | RED          |  |
| 3. | (GROUND) GRN |  |
| 4. | ORG          |  |
| 5. | BLK          |  |

##### 6 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | WHT          |  |
| 2. | RED          |  |
| 3. | (GROUND) GRN |  |
| 4. | ORG          |  |
| 5. | BLK          |  |
| 6. | BLU          |  |

##### 9 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | ORG          |  |
| 2. | BLU          |  |
| 3. | RED/BLK      |  |
| 4. | GRN/BLK      |  |
| 5. | WHT          |  |
| 6. | RED          |  |
| 7. | (GROUND) GRN |  |
| 8. | WHT/BLK      |  |
| 9. | BLK          |  |

##### 10 CONTACTS

- |     |              |  |
|-----|--------------|--|
| 1.  | ORG          |  |
| 2.  | BLU          |  |
| 3.  | WHT/BLK      |  |
| 4.  | RED/BLK      |  |
| 5.  | GRN/BLK      |  |
| 6.  | ORG/BLK      |  |
| 7.  | RED          |  |
| 8.  | (GROUND) GRN |  |
| 9.  | BLK          |  |
| 10. | WHT          |  |

##### 12 CONTACTS

- |     |              |  |
|-----|--------------|--|
| 1.  | ORG          |  |
| 2.  | BLU          |  |
| 3.  | WHT/BLK      |  |
| 4.  | RED/BLK      |  |
| 5.  | GRN/BLK      |  |
| 6.  | ORG/BLK      |  |
| 7.  | BLU/BLK      |  |
| 8.  | BLK/WHT      |  |
| 9.  | (GROUND) GRN |  |
| 10. | RED          |  |
| 11. | WHT          |  |
| 12. | BLK          |  |

##### 19 CONTACTS

- |     |                   |  |
|-----|-------------------|--|
| 1.  | VIO               |  |
| 2.  | RED               |  |
| 3.  | GRY               |  |
| 4.  | RED/BLU           |  |
| 5.  | BLU*              |  |
| 6.  | GRN               |  |
| 7.  | BRN*              |  |
| 8.  | WHT/GRN           |  |
| 9.  | WHT/YEL           |  |
| 10. | WHT/GRY           |  |
| 11. | BLK               |  |
| 12. | (GROUND) GRN/YEL* |  |
| 13. | YEL/BRN           |  |
| 14. | BRN/GRN           |  |
| 15. | WHT               |  |
| 16. | YEL/BRN           |  |
| 17. | PNK               |  |
| 18. | GRY/BRN           |  |
| 19. | GRY/PNK           |  |

\* 18 AWG wires  
(other wires are 22 AWG)

#### AUTOMOTIVE "A" Size

##### 3 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | (GROUND) GRN |  |
| 2. | RED 2        |  |
| 3. | RED 3        |  |

##### 4 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | RED 1        |  |
| 2. | RED 2        |  |
| 3. | RED 3        |  |
| 4. | (GROUND) GRN |  |

##### 5 CONTACTS

- |    |              |  |
|----|--------------|--|
| 1. | RED 1        |  |
| 2. | RED 2        |  |
| 3. | (GROUND) GRN |  |
| 4. | RED 4        |  |
| 5. | RED 5        |  |

For Automotive Color Code Insert  
"A" 164PA36

#### INTERNATIONAL "A" Size

##### 2 CONTACTS

- |    |     |  |
|----|-----|--|
| 1. | BRN |  |
| 2. | BLU |  |

##### 3 CONTACTS

- |    |     |  |
|----|-----|--|
| 1. | BLK |  |
| 2. | BRN |  |
| 3. | BLU |  |

##### 3 CONTACTS\*

- |    |         |  |
|----|---------|--|
| 1. | GRN/YEL |  |
| 2. | BRN     |  |
| 3. | BLU     |  |

##### 4 CONTACTS

- |    |     |  |
|----|-----|--|
| 1. | BLK |  |
| 2. | BLU |  |
| 3. | BRN |  |
| 4. | WHT |  |

##### 5 CONTACTS

- |    |         |  |
|----|---------|--|
| 1. | BLK     |  |
| 2. | BLU     |  |
| 3. | GRN/YEL |  |
| 4. | BRN     |  |
| 5. | WHT     |  |

For International Color Code Insert  
"I" 164PI36

\*For Second International Color  
Code Use "IA" 164PIA36

# SENSOR-LINK MINI-MIZER<sup>®</sup>

## MOLDED CONNECTOR ASSEMBLIES

### SENSOR LINK PRODUCT LINE

### MINI-MIZER<sup>®</sup> SPECIFICATIONS

#### STANDARD PANEL MOUNTS:

- 16 AWG, 105C, 600V, PVC Hook-up Wire
- EPTR "Santoprene" Insert
- Lead Length 12 In.
- Epoxy Filled

#### STANDARD CABLE ASSEMBLIES:

- 16 AWG, PVC Yellow Jacketed Cable
- Insert Material
  - Polyurethane ("A" Size)
  - PVC ("C" Size)
- PVC Overmold
- Length 3, 6 and 12 Ft.
  - Options*
    - 16 AWG, Polyurethane Yellow Jacketed Cable  
For Polyurethane Cable add suffix "U"
    - 16 AWG, PVC & Polyurethane Yellow Jacketed  
Shielded Cable  
For Shielded Cable add suffix "S"
- Lengths other than standard
- DeviceNet Gray
  - Add suffix "D1": Thin
  - Add suffix "D2": Thick

#### Y SPLITTER ASSEMBLIES:

- 18 AWG, Polyurethane Yellow Jacketed Cable
- Polyurethane Insert
- Polyurethane Overmold

#### TRI CONNECTOR:

- 18 AWG Hook-up Wires
- Polyurethane Insert
- Polyurethane Overmold
  - Options*
    - DeviceNet Gray
    - Add suffix "D1": Thin
    - Add suffix "D2": Thick

#### DUAL CONNECTOR WITH CABLE:

- 18 AWG, Polyurethane Yellow Jacketed Cable
- Polyurethane Insert
- Polyurethane Overmold

#### TERMINATOR:

- Resistor 1/4 Watt 121 Ohm 1%
- Polyurethane Insert
- Polyurethane Overmold

#### LED CORDSET:

- 2 High Intensity (700-1,000 mcd) Extended Life Yellow LEDs. (Typical life @ ambient temperature is 100,000 hours)
- 18 AWG, PVC Yellow Jacketed Cable
- PVC Insert
- PVC, Clear Overmold (LED Side Only)
  - Options*
    - 18 AWG, Polyurethane Yellow Jacketed Cable
    - Polyurethane, Clear Overmold (LED Side Only)

**ELECTRICAL RATING:**

**VOLTAGE:** 600V (NON-LED ASSEMBLIES)  
120V (LED ASSEMBLIES)

**CABLE ASSEMBLIES:**

**COUPLING NUT:** Anodized Aluminum (Optional Nylon and Stainless Steel) Consult Factory

**CONTACTS:** Copper Alloy, Gold-plated

**INSERT:** Polyurethane ("A" Size)  
PVC ("C" Size)

**MOLDED HEADS:** PVC or PUR per Cable Jacket Material

**CABLE:** 16 AWG: PVC Insulated, Fine Stranded Copper Conductors, Yellow Oil Resistant PVC Jacketed  
600V, STO, 105°C.  
18 AWG, 300V, 105°C for Y-splitter & Dual Connector with Cable  
UL Recognized, CSA Certified

**PANEL MOUNT ASSEMBLIES:**

**SHELLS:** Anodized Aluminum (Optional Nylon and Stainless Steel) Consult Factory

**CONTACTS:** Copper Alloy, Gold-plated

**INSERTS:** Ethylene Propylene  
Thermoplastic Rubber  
"Santoprene"

**WIRE:** 16 AWG PVC Insulated, 600V  
UL Recognized, CSA Certified

**ENVIRONMENTAL:**

**PROTECTION:** NEMA 6P, IP67 & IP68

**OPERATING AMBIENT:** -20° to 80°C

**CERTIFICATIONS:**

**UL:** UL Recognized, File No. E150822

**CSA:** CSA Certified, FILE No. 181200

**EMI/RFI SHIELDING:**

Meets or Exceeds IEC Directives:

IEC 1000-4-2 ESD, 5KV to 15KV in 2.5KV Steps

IEC 1000-4-3 RFI Immunity, 10V/m

IEC 1000-4-4 Fast Transient, 2K

IEC 1000-4-5 Surge, DC Immunity, 3.1KV

EN50141 Induced RF Immunity, 10V/m

