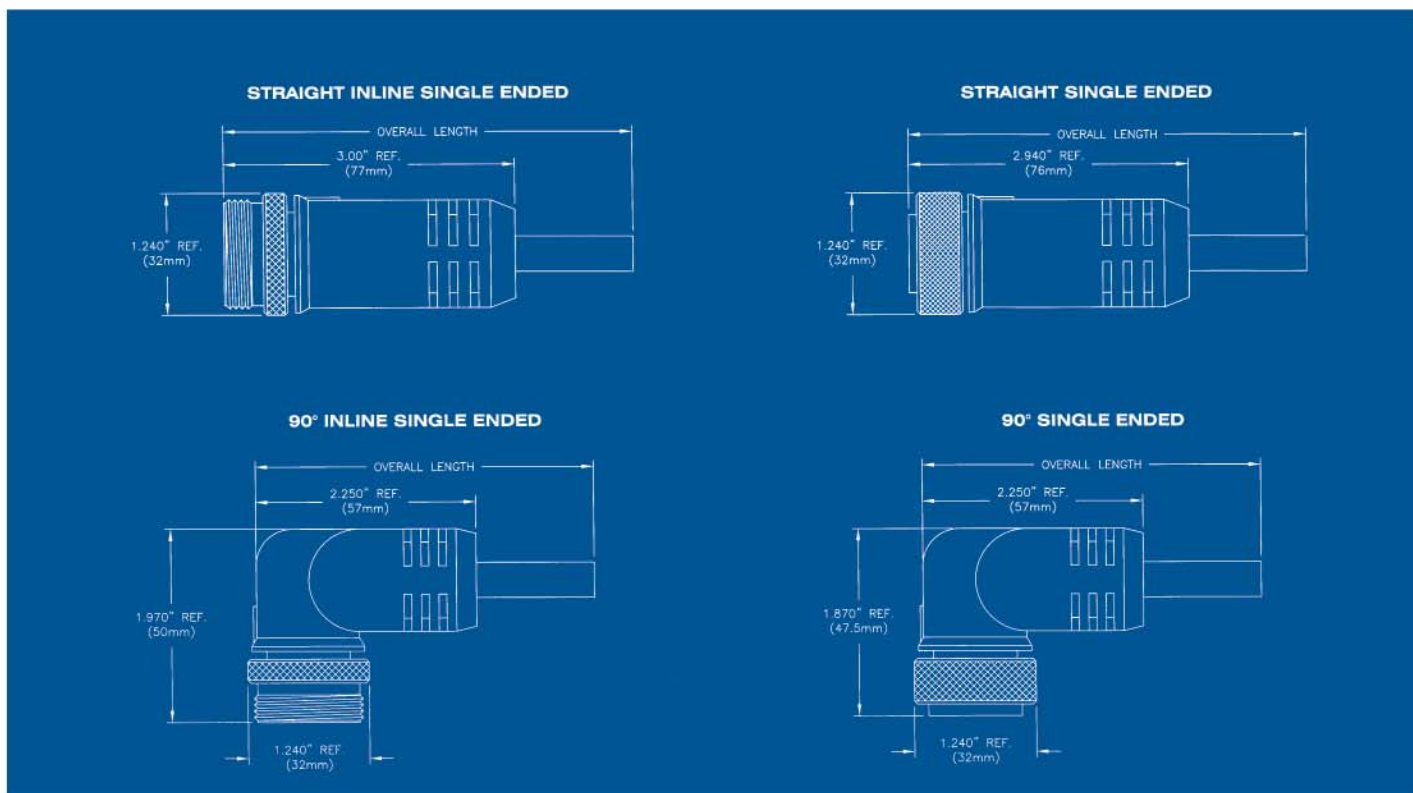


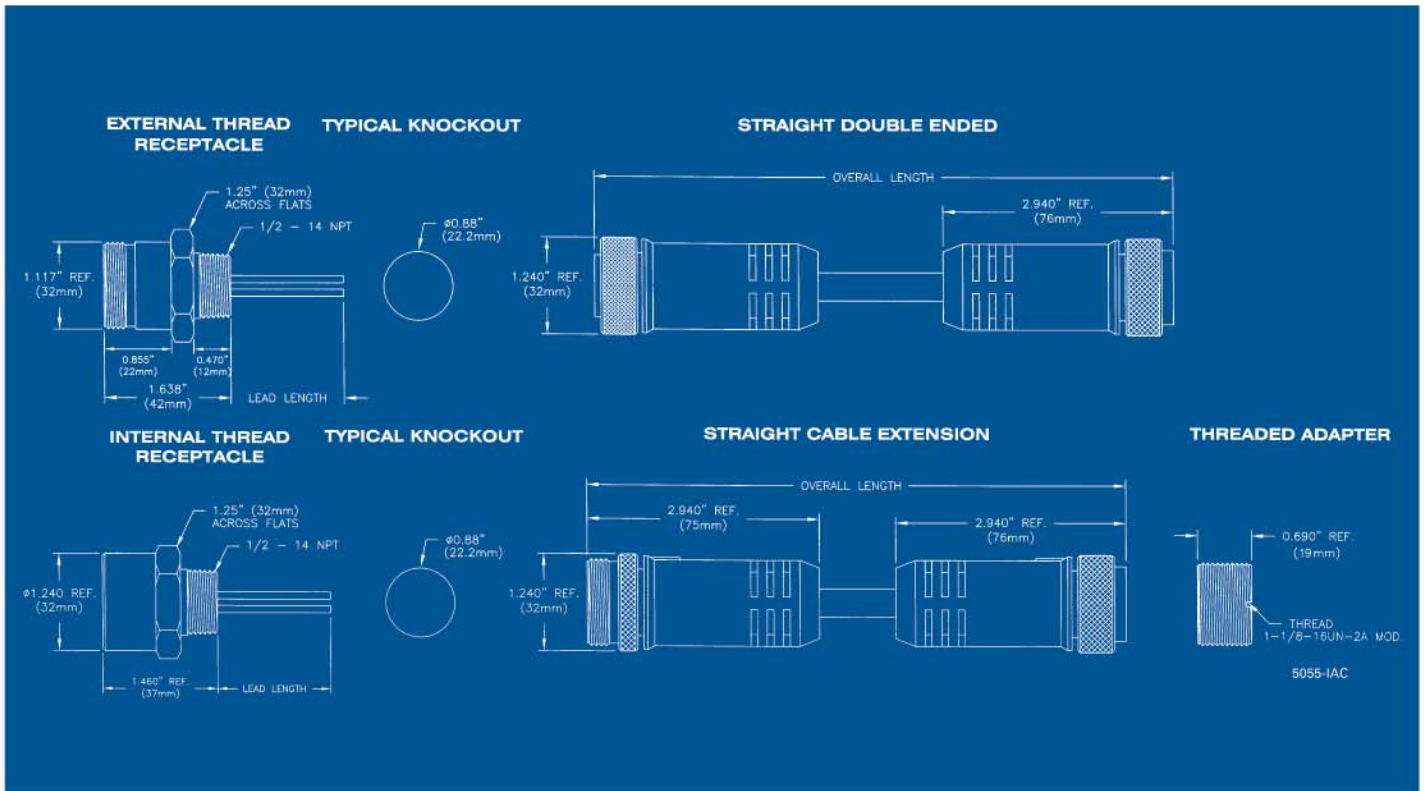
SENSOR-LINK MINI-MIZER® "C" Size

MOLDED CONNECTOR ASSEMBLIES



Face View Male	Rating	Overall Length Inches	Straight Male Single Ended	Straight Female Single Ended	90° Male Single Ended	90° Female Single Ended	Straight Inline Male Single Ended	Straight Inline Female Single Ended
	600V	36	169P36	169S36	189P36	189S36	199P36	199S36
		72	169P72	169S72	189P72	189S72	199P72	199S72
		144	169P144	169S144	189P144	189S144	199P144	199S144
		Custom	169PXXXX	169SXXXX	189PXXXX	189SXXXX	199PXXXX	199SXXXX
	600V	36	1610P36	1610S36	1810P36	1810S36	1910P36	1910S36
		72	1610P72	1610S72	1810P72	1810S72	1910P72	1910S72
		144	1610P144	1610S144	1810P144	1810S144	1910P144	1910S144
		Custom	1610PXXXX	1610SXXXX	1810PXXXX	1810SXXXX	1910PXXXX	1910SXXXX
	600V	36	1612P36	1612S36	1812P36	1812S36	1912P36	1912S36
		72	1612P72	1612S72	1812P72	1812S72	1912P72	1912S72
		144	1612P144	1612S144	1812P144	1812S144	1912P144	1912S144
		Custom	1612PXXXX	1612SXXXX	1812PXXXX	1812SXXXX	1912PXXXX	1912SXXXX
	600V	36	1619P36	1619S36	1819P36	1819S36	1919P36	1919S36
		72	1619P72	1619S72	1819P72	1819S72	1919P72	1919S72
		144	1619P144	1619S144	1819P144	1819S144	1919P144	1919S144
		Custom	1619PXXXX	1619SXXXX	1819PXXXX	1819SXXXX	1919PXXXX	1919SXXXX

XXXX – Indicates “overall length / lead length” in inches.
 For mechanical, electrical and wiring sequence see pages 13-15.
 90° assemblies have key position at 12 o’clock.



Externally Threaded Receptacle Male 12 Inch Leads	Externally Threaded Receptacle Female 12 Inch Leads	Internally Threaded Receptacle Male 12 Inch Leads	Internally Threaded Receptacle Female 12 Inch Leads	Straight Male / Male Double Ended	Straight Female / Female Double Ended	Straight Male / Female Double Ended	Extension Set Inline Male / Female Double Ended	Extension Set Inline Female / Male Double Ended
179P12	179S12	179PN12	179SN12	569P9P36	569S9S36	569P9S36	519P9S36	519S9P36
				569P9P72	569S9S72	569P9S72	519P9S72	519S9P72
179PXXX	179SXXX	179PNXXX	179SNXXX	569P9P144	569S9S144	569P9S144	519P9S144	519S9P144
				569P9PXXX	569S9SXXX	569P9SXXX	519P9SXXX	519S9PXXX
1710P12	1710S12	1710PN12	1710SN12	5610P10P36	5610S10S36	5610P10S36	5110P10S36	5110S10P36
				5610P10P72	5610S10S72	5610P10S72	5110P10S72	5110S10P72
1710PXXX	1710SXXX	1710PNXXX	1710SNXXX	5610P10P144	5610S10S144	5610P10S144	5110P10S144	5110S10P144
				5610P10PXXX	5610S10SXXX	5610P10SXXX	5110P10SXXX	5110S10PXXX
1712P12	1712S12	1712PN12	1712SN12	5612P12P36	5612S12S36	5612P12S36	5112P12S36	5112S12P36
				5612P12P72	5612S12S72	5612P12S72	5112P12S72	5112S12P72
1712PXXX	1712SXXX	1712PNXXX	1712SNXXX	5612P12P144	5612S12S144	5612P12S144	5112P12S144	5112S12P144
				5612P12PXXX	5612S12SXXX	5612P12SXXX	5112P12SXXX	5112S12PXXX
1719P12	1719S12	1719PN12	1719SN12	5619P19P36	5619S19S36	5619P19S36	5119P19S36	5119S19P36
				5619P19P72	5619S19S72	5619P19S72	5119P19S72	5119S19P72
1719PXXX	1719SXXX	1719PNXXX	1719SNXXX	5619P19P144	5619S19S144	5619P19S144	5119P19S144	5119S19P144
				5619P19PXXX	5619S19SXXX	5619P19SXXX	5119P19SXXX	5119S19PXXX

XXXX - Indicates "overall length / lead length" in inches.
 For mechanical, electrical and wiring sequence see pages 13-15.

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[®]

MOLDED CONNECTOR ASSEMBLIES

SENSOR LINK PRODUCT LINE

MINI-MIZER[®] 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

