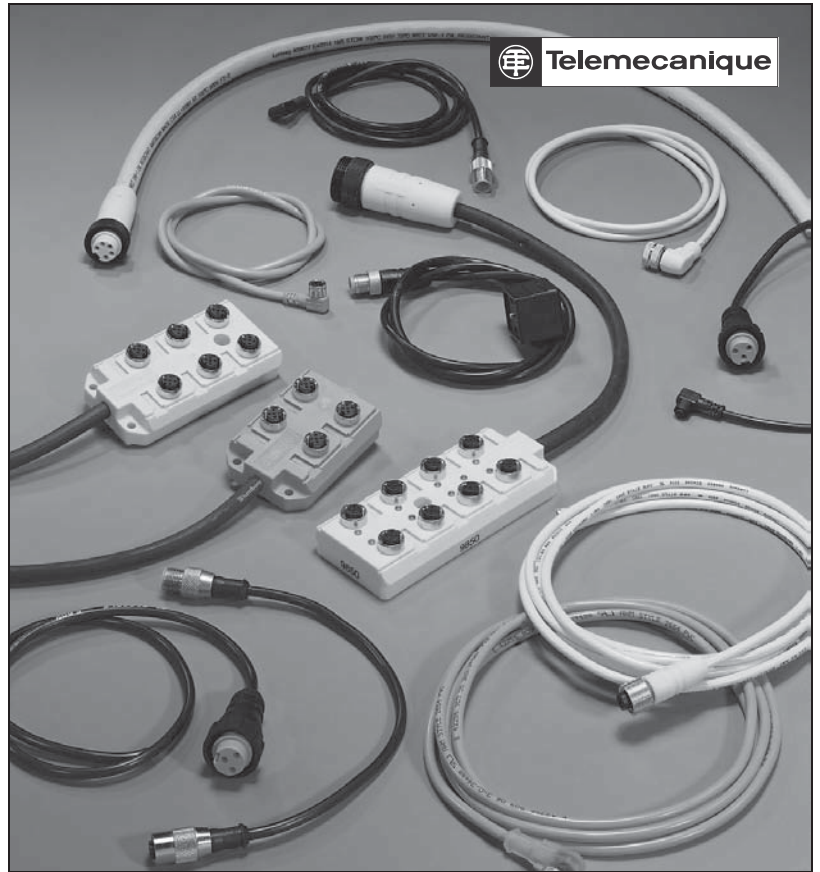


Connector Cables

File 9006



- Merlin Gerin**
- Modicon**
- Square D**
- Telemecanique**

Schneider Electric Brands

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Selection Guide for Typical Cabling Systems with Wiring to Connectors

Description	Connector Cables				Field Attachable Connectors					
	Nano Style M8	Micro Style M12	Micro Style 0.5" 20 UNF	Mini Style 0.88" 16 UNF	Micro Style M12	Micro Style 0.5" 20 UNF	Mini Style 0.88" 16 UNF	M18	DIN 43650 A	Type 717
Female	•	•	•	•	•	•	•	•	•	•
Male					•	•	•			
Connection Type										
Non-Locking	•									
Locking	•	•	•	•	•	•	•	•	•	•
Model										
Straight	•	•	•	•	•	•	•	•		
90 Degree	•	•	•	•	•	•	•	•	•	•
Number of Contacts	3,4	2,4,5	3,4,5	3,4,5,6,7,9	4,5	3	3,4,5	4	4	5
Signaling										
without LED	•	•	•	•	•	•	•	•	•	•
with LED	•	•	•	•	•	•	•	•	•	•
Voltage										
DC	•	•		•	•		•	•	•	•
AC/ DC		•	•	•		•	•			
Color										
Yellow	•	•	•	•						
Black	•	•	•	•	•	•	•	•	•	•
Current (A)	4	3,4	3,4	2, 8, 10, 12	4	4	8,13	16	16	16
Cable Length										
1 m										
2 m, 6 ft	•	•	•	•						
5 m, 15 ft	•	•	•	•						
10 m, 30 ft	•	•	•	•						
Reference	XSZCS9, XSZCS1, XZCP	XSZCD, XZCP	XSZCK, XZCP	XSZCA, XZCP	XSZFD	XSZFK	XSZFA	XZCC	XZCC	XZCC
Page Number	520	526	530	532	538	538	542	542	542	542

• Available selection

Selection Guide for Typical Cabling Systems with Wiring to Connectors

Description	Extension Cables				Splitter Cables	Splitter Boxes	Sensor Docks			
	Nano Style M8 to Micro Style	Micro Style M12 to Micro Style	DIN 43650 A to Micro Style	Mini Style 3 Pin to Mini Style 3 Pin	2 Input Micro Style M12 to Micro Style	2 Input Micro Style to Micro Style	4 Input Micro Style M12	6 Input Micro Style M12	8 Input Micro Style M12	Seriplex and ASI Modules
Connector Type										
Female	• M8	• M12	• DIN	• M8	• M12	• M12	•	•	•	
Male	• M12	• M12	• M12	• M12	• M12	• M12				
Connection Type										
Non-Locking										
Locking	•	•	•	•	•	•	•	•	•	
Model										
Straight	•	•	•	•	•					
90 Degree	•	•	•	•	•					
Number of Contacts	3	3,4	5	3	4	4,5	3,4	3,4	3,4	
Signaling										
without LED	•	•	•	•	•	•	•	•	•	
with LED					• (PNP)					
Voltage										
DC	•	•	•		•	•	•	•	•	
AC/DC		•		•			•	•	•	
Color										
Orange	•	•			•	•				
Yellow		•		•	•		•	•	•	
Black	•	•	•			•	•	•	•	
Current (A)	3,4	3,4	4	8	3	3	4/12	4/12	4/12	
Cable Length										
1 m	•	•	•	•	•					
2 m, 6 ft	•	•	•	•	•					
5 m, 15 ft					•		•	•	•	
10 m, 30 ft							•	•	•	
Reference	XSZESD, XZCR	XSZEKK, XSZEDD, XZCR	XZCR	XSZEAA	XSZSDD, XSZSSD	XSZSDD, XZLC	XSZLD, XSZLK, XZLC	XSZLD, XSZLK, XZLC	XSZLD, XSZLK, XZLC	
Page Number	544	544, 546	546-549	546	548	550	552-555	552-555	552-555	554

Connector Cables

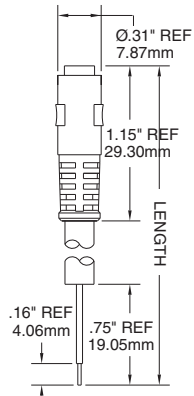
NANO Style Connector Cables (Female)

Non-Locking, with and without LEDs

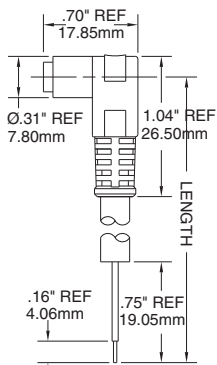


Non-Locking Type — DC 3 Pin — Without LED

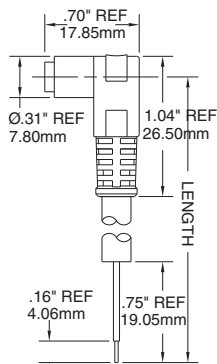
Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Telemecanique Catalog Number
		Feet	Meters				
S, M8	1	6.6	2	Straight	PVC	Yellow	XSZCS901
S, M8	1	16.4	5	Straight	PVC	Yellow	XSZCS902
S, M8	1	32.8	10	Straight	PVC	Yellow	XSZCS903
S, M8	1	6.6	2	Straight	PUR	Yellow	XSZCS904
S, M8	1	16.4	5	Straight	PUR	Yellow	XSZCS905
S, M8	1	32.8	10	Straight	PUR	Yellow	XSZCS906
S, M8	1	6.6	2	Straight	PVR	Black	XZCP0166L2
S, M8	1	16.4	5	Straight	PVR	Black	XZCP0166L5
S, M8	1	32.8	10	Straight	PVR	Black	XZCP0166L10
S, M8	2	6.6	2	90°	PVC	Yellow	XSZCS911
S, M8	2	16.4	5	90°	PVC	Yellow	XSZCS912
S, M8	2	32.8	10	90°	PVC	Yellow	XSZCS913
S, M8	2	32.8	10	90°	PVC	Yellow	XSZCS914
S, M8	2	16.4	5	90°	PUR	Yellow	XSZCS915
S, M8	2	32.8	10	90°	PUR	Yellow	XSZCS916
S, M8	2	6.6	2	90°	PVR	Black	XZCP0266L2
S, M8	2	16.4	5	90°	PVR	Black	XZCP0266L5
S, M8	2	32.8	10	90°	PVR	Black	XZCP0266L10



Reference Number 1



Reference Number 2



Reference Number 3 and 4

Non-Locking Type — PNP DC 3 Pin — With LEDs

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Telemecanique Catalog Number
		Feet	Meters				
S, M8	3	6.6	2	90°	PVC	Yellow	XSZCS921
S, M8	3	16.4	5	90°	PVC	Yellow	XSZCS922
S, M8	3	32.8	10	90°	PVC	Yellow	XSZCS923
S, M8	3	6.6	2	90°	PUR	Yellow	XSZCS924
S, M8	3	16.4	5	90°	PUR	Yellow	XSZCS925
S, M8	3	32.8	10	90°	PUR	Yellow	XSZCS926
S, M8	3	6.6	2	90°	PVR	Black	XZCP0366L2
S, M8	3	16.4	5	90°	PVR	Black	XZCP0366L5
S, M8	3	32.8	10	90°	PVR	Black	XZCP0366L10

Non-Locking Type — NPN DC 3 Pin — With LEDs

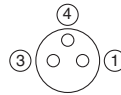
Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
S, M8	4	6.6	2	90°	PVC	Yellow	XSZCS931
S, M8	4	16.4	5	90°	PVC	Yellow	XSZCS932
S, M8	4	32.8	10	90°	PVC	Yellow	XSZCS933
S, M8	4	6.6	2	90°	PUR	Yellow	XSZCS934
S, M8	4	16.4	5	90°	PUR	Yellow	XSZCS935
S, M8	4	32.8	10	90°	PUR	Yellow	XSZCS936
S, M8	4	6.6	2	90°	PVR	Black	XZCP0466L2
S, M8	4	16.4	5	90°	PVR	Black	XZCP0466L5
S, M8	4	32.8	10	90°	PVR	Black	XZCP0466L10

Connector Cables

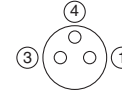
Connector Cables NANO Style Connector Cables (Female) Non-Locking, with and without LEDs

Specifications

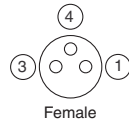
Mechanical		Yellow Cable (PVC)	Yellow Cable (PUR)	Black Cable (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-4° F to +176° F (-20° C to +80° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	Transparent (LED version only) – PVC – TPE	Transparent (LED version only) – PVC – TPE	TPU
	Contact	Solid-machined brass, gold over nickel plating	Solid-machined brass, gold over nickel plating	Cu. Zn
	Cable	PVC	PUR	PvR (PVC/NBR)
	Insert	PBT	PBT	TPU PA6 GV
Cable		0.22 mm ² (24 AWG) conductor, PVC, Hi-Flex bare, UL style 2661 copper stranding	0.22 mm ² (24 AWG) conductor, PUR, Hi-Flex bare, UL style 20233 copper stranding	0.22 mm ² (24 AWG) conductor PVC T12
Enclosure rating	NEMA Type	4	4	–
	IEC Type	IP65	IP65	IP65
Shock		IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6
Electrical				
Contact resistance		≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Current ratings		4 A	4 A	4 A
Working voltage		60 Vac/RMS/75 Vdc Non LED version, LED version 10 to 30 Vdc	60 Vac/RMS/75 Vdc Non LED version, LED version 10 to 30 Vdc	60 Vac/RMS/75 Vdc Non LED version, LED version 10 to 30 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds	1.5 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
LED (LED versions only)	Green	Power	Power	Power
	Yellow	Sensor Output Signal	Sensor Output Signal	Sensor Output Signal



1 = Brown
3 = Blue
4 = Black

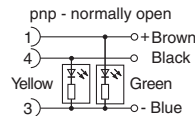


1 = Brown
3 = Blue
4 = Black

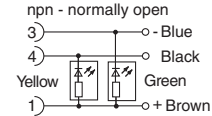


Female

**Reference Number
1 and 2**



Reference Number 3

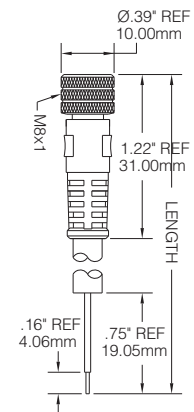


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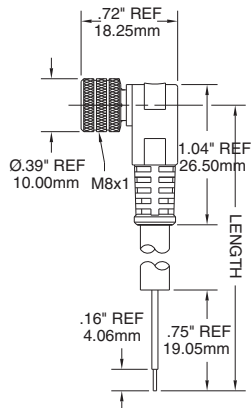
Connector Cables

NANO Style Connector Cables (Female)

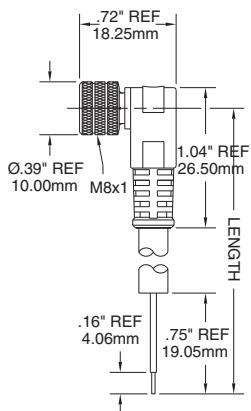
Locking, with and without LEDs



Reference Number 5



Reference Number 6



Reference Number 7 and 8

Locking Type — DC 3 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
S, M8	5	6.6	2	Straight	PVC	Yellow	XSZCS101
S, M8	5	16.4	5	Straight	PVC	Yellow	XSZCS102
S, M8	5	32.8	10	Straight	PVC	Yellow	XSZCS103
S, M8	5	6.6	2	Straight	PUR	Yellow	XSZCS104
S, M8	5	16.4	5	Straight	PUR	Yellow	XSZCS105
S, M8	5	32.8	10	Straight	PUR	Yellow	XSZCS106
S, M8	5	6.6	2	Straight	PVR	Black	XZCP0566L2
S, M8	5	16.4	5	Straight	PVR	Black	XZCP0566L5
S, M8	5	32.8	10	Straight	PVR	Black	XZCP0566L10
S, M8	6	6.6	2	90°	PVC	Yellow	XSZCS111
S, M8	6	16.4	5	90°	PVC	Yellow	XSZCS112
S, M8	6	32.8	10	90°	PVC	Yellow	XSZCS113
S, M8	6	6.6	2	90°	PUR	Yellow	XSZCS114
S, M8	6	16.4	5	90°	PUR	Yellow	XSZCS115
S, M8	6	32.8	10	90°	PUR	Yellow	XSZCS116
S, M8	6	6.6	2	90°	PVR	Black	XZCP0666L2
S, M8	6	16.4	5	90°	PVR	Black	XZCP0666L5
S, M8	6	32.8	10	90°	PVR	Black	XZCP0666L10

Locking Type — PNP DC 3 Pin — With LEDs

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
S, M8	7	6.6	2	90°	PVC	Yellow	XSZCS121
S, M8	7	16.4	5	90°	PVC	Yellow	XSZCS122
S, M8	7	32.8	10	90°	PVC	Yellow	XSZCS123
S, M8	7	6.6	2	90°	PVR	Black	XZCP0766L2
S, M8	7	16.4	5	90°	PVR	Black	XZCP0766L5
S, M8	7	32.8	10	90°	PVR	Black	XZCP0766L10

Locking Type — NPN DC 3 Pin — With LEDs

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
S, M8	8	6.6	2	90°	PVC	Yellow	XSZCS131
S, M8	8	16.4	5	90°	PVC	Yellow	XSZCS132
S, M8	8	32.8	10	90°	PVC	Yellow	XSZCS133
S, M8	8	6.6	2	90°	PVR	Black	XZCP0866L2
S, M8	8	16.4	5	90°	PVR	Black	XZCP0866L5
S, M8	8	32.8	10	90°	PVR	Black	XZCP0866L10

Connector Cables

Dual Dimensions $\frac{\text{inches}}{\text{mm}}$

Connector Cables

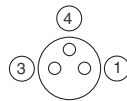
NANO Style Connector Cables (Female)

Locking, with and without LEDs

Specifications

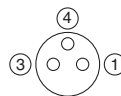
Mechanical		Yellow Cable (PVC)	Yellow Cable (PUR)	Black Cable (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-4° F to +176° F (-20° C to +80° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	Transparent (LED version only) – PVC – TPE	Transparent (LED version only) – PVC – TPE	TPU
	Contact	Solid-machined brass, gold over nickel plating	Solid-machined brass, gold over nickel plating	Cu ZA
	Cable	PVC	PUR	PVR (PVC/NBR)
	Coupling Nut	Brass, nickel plated	Brass, nickel plated	Cu Zn
	Insert	PBT	PBT	TPU
Cable		0.22 mm ² (24 AWG) conductor, PVC, Hi-Flex bare, UL style 2661 copper stranding	0.22 mm ² (24 AWG) conductor, PUR, Hi-Flex bare, UL style 20233 copper stranding	0.22 mm ² (24 AWG) conductor PVC T12
Enclosure rating	NEMA Type ■	6P	6P	–
	IEC Type ■	IP68	IP68	IP67
Shock		IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6
Electrical				
Contact resistance		≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Current ratings		4 A	4 A	4 A
Working voltage		60 Vac/RMS/75 Vdc Non LED version, LED version 10 to 30 Vdc	60 Vac/RMS/75 Vdc Non LED version, LED version 10 to 30 Vdc	60 Vac/RMS/75 Vdc Non LED version, LED version 10 to 30 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds	1.5 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
LED (LED versions only)	Green	Power	Power	Power
	Yellow	Sensor Output Signal	Sensor Output Signal	Sensor Output Signal

■ Only in fully locked position

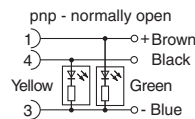


1 = Brown
3 = Blue
4 = Black

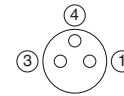
Reference Number 6 and 7



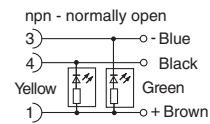
1 = Brown
3 = Blue
4 = Black



Reference Number 7



1 = Brown
3 = Blue
4 = Black



Reference Number 8

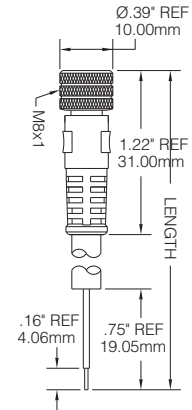
Connector Cables

NANO Style Connector Cables (Female)

Locking, without LEDs

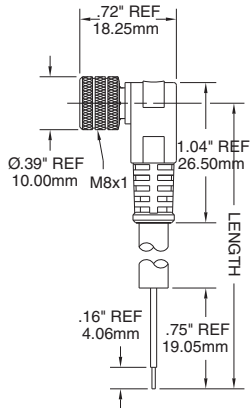


Locking Type — DC 4 Pin — Without LED



Reference Number 9

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
S, M8	9	6.6	2	Straight	PVC	Yellow	XSZCS141
S, M8	9	16.4	5	Straight	PVC	Yellow	XSZCS142
S, M8	9	32.8	10	Straight	PVC	Yellow	XSZCS143
S, M8	9	6.6	2	Straight	PVR	Black	XZCP0941L2
S, M8	9	16.4	5	Straight	PVR	Black	XZCP0941L5
S, M8	9	32.8	10	Straight	PVR	Black	XZCP0941L10
S, M8	10	6.6	2	90°	PVC	Yellow	XSZCS151
S, M8	10	16.4	5	90°	PVC	Yellow	XSZCS152
S, M8	10	32.8	10	90°	PVC	Yellow	XSZCS153
S, M8	10	6.6	2	90°	PVR	Black	XZCP1041L2
S, M8	10	16.4	5	90°	PVR	Black	XZCP1041L5
S, M8	10	32.8	10	90°	PVR	Black	XZCP1041L10

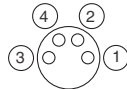


Reference Number 10

Connector Cables

Specifications

Mechanical		Yellow Cable (PVC)	Black Cable (PVR)
Standard Temperature Range		–	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	TPE	TPU
	Contact	Solid-machined brass, gold over nickel plating	Cu Zn
	Cable	PVC	PVR (PVC/NBR)
	Coupling Nut	Brass, nickel plated	Cu Zn
	Insert	PBT	TPU
Cable		0.22 mm ² (24 AWG) conductor, PVC, Hi-Flex bare, UL style 2661 copper stranding	0.34 mm ² (22 AWG) conductor, PVC T12
Enclosure rating	NEMA Type ■	6P	–
	IEC Type ■	IP68	IP67
Shock		IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6
Electrical			
Contact resistance		< 5 mΩ	< 5 mΩ
Current ratings		4 A	4 A
Working voltage		60 Vac/RMS/75 Vdc	60 Vac/RMS/75 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω
■ Only in fully locked position			



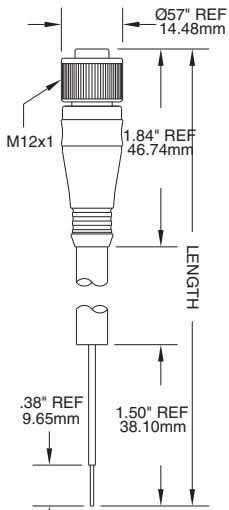
- 1 = Brown
- 2 = White
- 3 = Blue
- 4 = Black

Reference Number 9 and 10

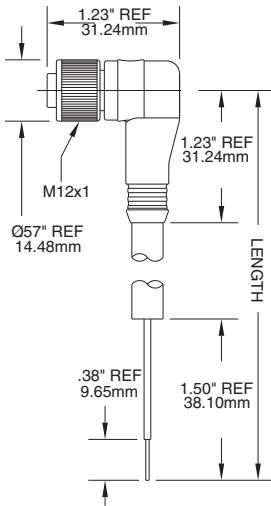
Connector Cables

MICRO Style Connector Cables (Female)

Locking, without LEDs



Reference Number 11



Reference Number 12

DC 4 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
D, M12	11	6.6	2	Straight	PVC	Yellow	XSZCD101Y
D, M12	11	16.4	5	Straight	PVC	Yellow	XSZCD102Y
D, M12	11	32.8	10	Straight	PVC	Yellow	XSZCD103Y
D, M12	11	6.6	2	Straight	PUR	Yellow	XSZCD104Y
D, M12	11	16.4	5	Straight	PUR	Yellow	XSZCD105Y
D, M12	11	32.8	10	Straight	PUR	Yellow	XSZCD106Y
D, M12	11	6.6	2	Straight	PVR	Black	XZCP1141L2
D, M12	11	16.4	5	Straight	PVR	Black	XZCP1141L5
D, M12	11	32.8	10	Straight	PVR	Black	XZCP1141L10
D, M12	12	6.6	2	90°	PVC	Yellow	XSZCD111Y
D, M12	12	16.4	5	90°	PVC	Yellow	XSZCD112Y
D, M12	12	32.8	10	90°	PVC	Yellow	XSZCD113Y
D, M12	12	6.6	2	90°	PUR	Yellow	XSZCD114Y
D, M12	12	16.4	5	90°	PUR	Yellow	XSZCD115Y
D, M12	12	32.8	10	90°	PUR	Yellow	XSZCD116Y
D, M12	12	6.6	2	90°	PVR	Black	XZCP1241L2
D, M12	12	16.4	5	90°	PVR	Black	XZCP1241L5
D, M12	12	32.8	10	90°	PVR	Black	XZCP1241L10

Specifications

Mechanical		Yellow Cable (PVC)	Yellow Cable (PUR)	Black Cable (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-4° F to +176° F (-20° C to +80° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	PVC	PUR (Polyurethane)	TPU
	Contact	Copper alloy, gold over nickel plating	Copper alloy, gold over nickel plating	Cu Zn
	Cable	PVC, Self extinguishing	PUR (Polyurethane), Self extinguishing	PVR (PVC/NBR)
	Coupling nut	Brass, nickel plated	Brass, nickel plated	Cu Zn
	Insert	Nylon 6/6	Nylon 6/6	TPU
Cable		22 AWG, UL style 2661; Hi-Flex bare, 26x36 copper stranding	22 AWG, UL style 20233; Hi-Flex bare, 26x36 copper stranding	0.34 mm ² (22 AWG) conductor, PVC T12
Enclosure rating	NEMA Type ■	6P	6P	–
	IEC Type ■	IP68	IP68	IP67
Shock		IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6
Electrical				
Contact resistance		≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Current ratings		4 A	4 A	4 A
Working voltage		250 Vdc	250 Vdc	250 Vac/300 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		≥ 10 ⁹ Ω	≥ 10 ⁹ Ω	≥ 10 ⁹ Ω
Agency Approvals	UL	Yes	Yes	–
	CSA	Yes	Yes	–

■ Only in fully locked position



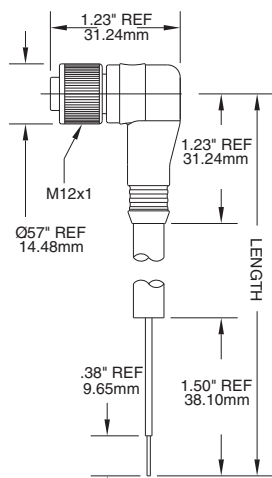
- 1 = Brown
- 2 = White
- 3 = Blue
- 4 = Black
- 5 = not used

Reference Number 11 and 12

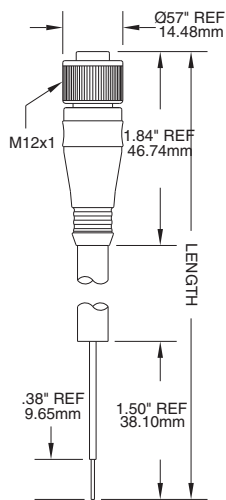
Connector Cables

MICRO Style Connector Cables (Female)

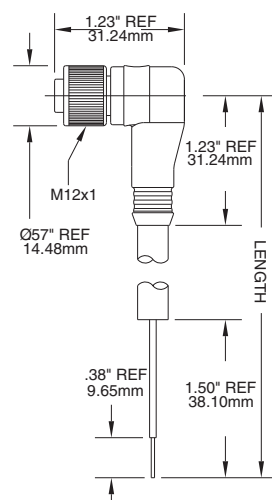
DC with and without LEDs



Reference Number 13 and 14



Reference Number 15



Reference Number 16

PNP DC 4 Pin — With LEDs

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
D, M12	13	6.6	2	90°	PVC	Yellow	XSZCD121Y
D, M12	13	16.4	5	90°	PVC	Yellow	XSZCD122Y
D, M12	13	32.8	10	90°	PVC	Yellow	XSZCD123Y
D, M12	13	6.6	2	90°	PUR	Yellow	XSZCD124
D, M12	13	16.4	5	90°	PUR	Yellow	XSZCD125
D, M12	13	32.8	10	90°	PUR	Yellow	XSZCD126
D, M12	13	6.6	2	90°	PVR	Black	XZCP1340L2
D, M12	13	16.4	5	90°	PVR	Black	XZCP1340L5
D, M12	13	32.8	10	90°	PVR	Black	XZCP1340L10

NPN DC 4 Pin — With LEDs

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
D, M12	14	6.6	2	90°	PVC	Yellow	XSZCD131Y
D, M12	14	16.4	5	90°	PVC	Yellow	XSZCD132Y
D, M12	14	32.8	10	90°	PVC	Yellow	XSZCD133Y
D, M12	14	6.6	2	90°	PUR	Yellow	XSZCD134
D, M12	14	16.4	5	90°	PUR	Yellow	XSZCD135
D, M12	14	32.8	10	90°	PUR	Yellow	XSZCD136
D, M12	14	6.6	2	90°	PVR	Black	XZCP1440L2
D, M12	14	16.4	5	90°	PVR	Black	XZCP1440L5
D, M12	14	32.8	10	90°	PVR	Black	XZCP1440L10

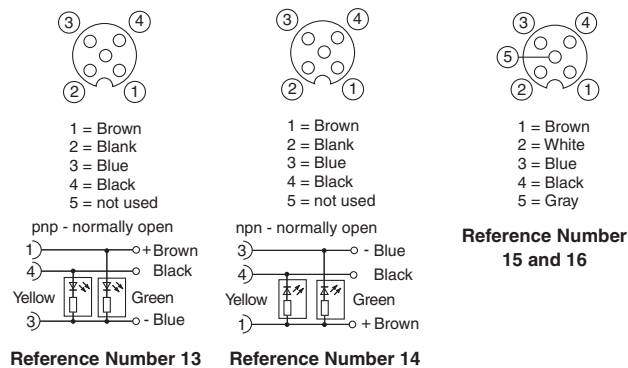
DC 5 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
-	15	6.6	2	Straight	PVC	Yellow	XSZCD1501Y
-	15	16.4	5	Straight	PVC	Yellow	XSZCD1502Y
-	15	32.8	10	Straight	PVC	Yellow	XSZCD1503Y
-	16	6.6	2	90°	PVC	Yellow	XSZCD1511Y
-	16	16.4	5	90°	PVC	Yellow	XSZCD1512Y
-	16	32.8	10	90°	PVC	Yellow	XSZCD1513Y

Specifications

Mechanical		Yellow Cable (PVC)	Yellow Cable (PUR)	Black Cable (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-4° F to +176° F (-20° C to +80° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	PUR (Polyurethane), Transparent (LED version only)	PUR (Polyurethane), Transparent (LED version only)	TPU
	Contact	Copper alloy, gold over nickel plating	Copper alloy, gold over nickel plating	Cu Sn
	Cable	PVC, Self extinguishing	PUR/PVC	PVR (PVC/NBR)
	Coupling nut	Brass, nickel plated	Brass, nickel plated	Cu Zn
	Insert	PUR	PUR	TPU
Cable		22 AWG, UL style 2661; Hi-Flex bare, 26x36 copper stranding	22 AWG, UL style 20233; Hi-Flex bare, 26x36 copper stranding	0.34 mm ² (22 AWG) conductor, PVC T12
Enclosure rating	NEMA Type ■	6P	6P	—
	IEC Type ■	IP68	IP68	IP67
Shock		IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6
Electrical				
Contact resistance		≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Current ratings		3 A	3 A	3 A
Working voltage		250 Vdc	250 Vdc	250 Vdc (LED version 10-30 Vdc)
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
LED (LED versions only)	Green	Power	Power	Power
	Yellow	Sensor Output Signal	Sensor Output Signal	Sensor Output Signal
Agency Approvals	UL	Yes	Yes	—
	CSA	Yes	Yes	—

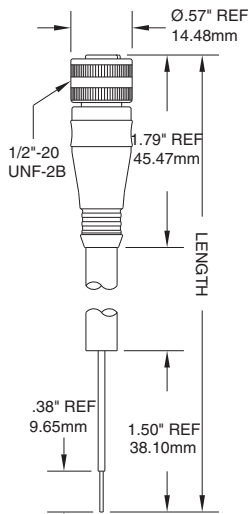
■ Only in fully locked position



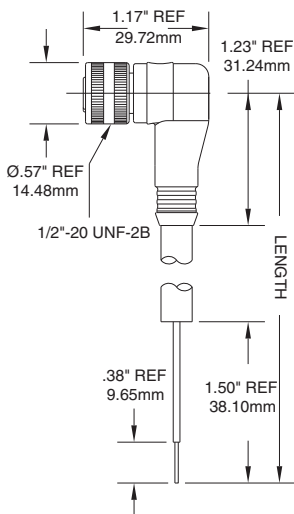
Connector Cables

MICRO Style Connector Cables (Female)

AC/DC without LED



Reference Number 17



Reference Number 18, 19 and 20

AC/DC 3 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
K, U20	18	6.0	1.8	90°	PVC	Yellow	XSZCK101Y
K, U20	18	15.0	4.6	90°	PVC	Yellow	XSZCK102Y
K, U20	18	30.0	9.1	90°	PVC	Yellow	XSZCK103Y
K, U20	18	6.6	2.0	90°	PVR	Black	XZCP1865L2
K, U20	18	16.4	5.0	90°	PVR	Black	XZCP1865L5
K, U20	18	32.8	10.0	90°	PVR	Black	XZCP1865L10
K, U20	17	6.0	1.8	Straight	PVC	Yellow	XSZCK111Y
K, U20	17	15.0	4.6	Straight	PVC	Yellow	XSZCK112Y
K, U20	17	30.0	9.1	Straight	PVC	Yellow	XSZCK113Y
K, U20	17	6.6	2.0	Straight	PVR	Black	XZCP1965L2
K, U20	17	16.4	5.0	Straight	PVR	Black	XZCP1965L5
K, U20	17	32.8	10.0	Straight	PVR	Black	XZCP1965L10

AC/DC 4 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
—	17	6.6	2	Straight	PVC	Yellow	XSZCK1401Y
—	17	16.4	5	Straight	PVC	Yellow	XSZCK1402Y
—	17	32.8	10	Straight	PVC	Yellow	XSZCK1403Y
—	19	6.6	2	90°	PVC	Yellow	XSZCK1411Y
—	19	16.4	5	90°	PVC	Yellow	XSZCK1412Y
—	19	32.8	10	90°	PVC	Yellow	XSZCK1413Y

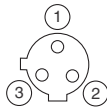
AC/DC 5 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
—	17	6.6	2	Straight	PVC	Yellow	XSZCK1501Y
—	17	16.4	5	Straight	PVC	Yellow	XSZCK1502Y
—	17	32.8	10	Straight	PVC	Yellow	XSZCK1503Y
—	20	6.6	2	90°	PVC	Yellow	XSZCK1511Y
—	20	16.4	5	90°	PVC	Yellow	XSZCK1512Y
—	20	32.8	10	90°	PVC	Yellow	XSZCK1513Y

Specifications

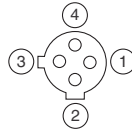
Mechanical			
		Yellow Cable (PVC)	Black Cable (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	PVC	TPU
	Contact	Copper alloy, gold over nickel plating	Cu Sn
	Cable	PVC, Self extinguishing	PVR (PVC/NBR)
	Coupling nut	Brass, nickel plated	Cu Zn
	Insert	Nylon 6/6	TPU
Cable		22 AWG, UL style 2661; Metallic Braid, 26x36 copper stranding	0.34 mm ² (22 AWG) conductor, PVC TI2
Enclosure rating	NEMA Type ■	6P	—
	IEC Type ■	IP68	IP67
Shock		IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6
Electrical			
Contact resistance		≤ 5 mΩ	≤ 5 mΩ
Current ratings		4 A	4 A
Working voltage		250 Vac/dc	250 Vac/300 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω
Agency Approvals	UL	Yes	—
	CSA	Yes	—

■ Only in fully locked position



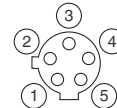
1 = Green
2 = Red/Black
3 = Red/White

Reference Number
17 and 18



1 = Red/Black
2 = Red/White
3 = Red
4 = Green

Reference Number
17 and 19



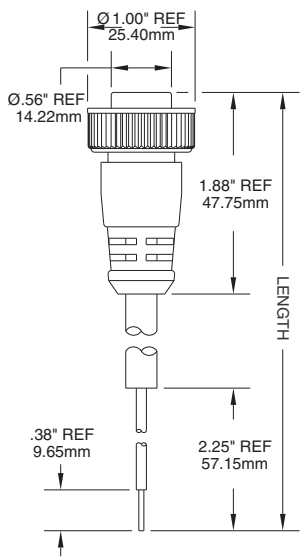
1 = Red/White
2 = Red
3 = Green
4 = Red/Yellow
5 = Red/Black

Reference Number
17 and 20

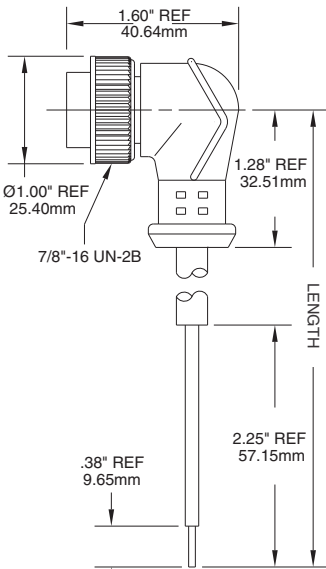
Connector Cables

Mini Style Connector Cables (Female)

DC, AC/DC without LEDs — 3 Pin



Reference Number
21 and 23



Reference Number
22 and 24

DC 3 Pin — Without LED

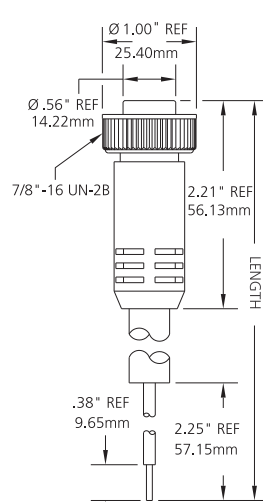
Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
A, R3	21	6.0	1.8	Straight	PVC	Yellow	XSZCA101Y
A, R3	21	15.0	4.6	Straight	PVC	Yellow	XSZCA102Y
A, R3	21	30.0	9.1	Straight	PVC	Yellow	XSZCA103Y
A, R3	21	6.6	2.0	Straight	PVR	Black	XZCP1662L2
A, R3	21	16.4	5.0	Straight	PVR	Black	XZCP1662L5
A, R3	21	32.8	10.0	Straight	PVR	Black	XZCP1662L10
A, R3	22	6.0	1.8	90°	PVC	Yellow	XSZCA111Y
A, R3	22	15.0	4.6	90°	PVC	Yellow	XSZCA112Y
A, R3	22	30.0	9.1	90°	PVC	Yellow	XSZCA113Y

AC/DC 3 Pin — Without LED

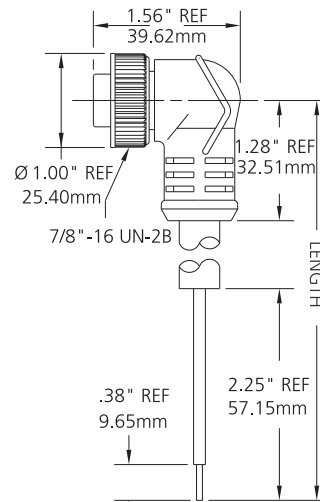
Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
A, R3	23	6.0	1.8	Straight	PVC	Yellow	XSZCA901Y
A, R3	23	15.0	4.6	Straight	PVC	Yellow	XSZCA902Y
A, R3	23	30.0	9.1	Straight	PVC	Yellow	XSZCA903Y
A, R3	23	6.6	2.0	Straight	PVR	Black	XZCP1670L2
A, R3	23	16.4	5.0	Straight	PVR	Black	XZCP1670L5
A, R3	23	32.8	10.0	Straight	PVR	Black	XZCP1670L10
A, R3	24	6.0	1.8	90°	PVC	Yellow	XSZCA911Y
A, R3	24	15.0	4.6	90°	PVC	Yellow	XSZCA912Y
A, R3	24	30.0	9.1	90°	PVC	Yellow	XSZCA913Y

AC/DC 3 Pin — Without LED — (10 Amp rated)

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
A, R3	25	6	1.8	Straight	STOOW	Yellow	XSZCA1311Y
A, R3	25	15	4.6	Straight	STOOW	Yellow	XSZCA1312Y
A, R3	25	30	9.1	Straight	STOOW	Yellow	XSZCA1313Y
A, R3	26	6	1.8	90°	STOOW	Yellow	XSZCA9311Y
A, R3	26	15	4.6	90°	STOOW	Yellow	XSZCA9312Y
A, R3	26	30	9.1	90°	STOOW	Yellow	XSZCA9313Y



Reference Number 25

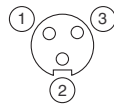


Reference Number 25

Specifications

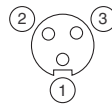
Mechanical		Yellow Cable (PVC)	Yellow Cable (STOOW) 13 Amp	Black Cable (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-4° F to +221° F (-20° C to +105° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	PVC - UL - 94	PVC - UL - 94	TPU
	Contact	Solid-machined brass, gold over silver plating	Solid-machined brass, gold over silver plating	Cu Sn
	Cable	PVC, Self extinguishing	STOOW	PVR (PVC/NBR)
	Coupling nut	Zinc Diecast with black epoxy coat	Zinc Diecast with black epoxy coat	Cu Zn
	Insert	PVC - UL STD - 94	PVC - UL STD - 94	TPU
Cable		18 AWG, UL style 2661; Hi-Flex bare, 41x34 copper stranding	1.23 mm ² (16 AWG), UL-STOOW; Hi-Flex bare, 65x34 copper stranding	0.5 mm ² (20 AWG) conductor, PVC T12
Enclosure rating	NEMA Type ■	6P	6P	-
	IEC Type ■	IP68	IP68	IP67
Insertion Force		≤ 3.0 N (0.67 lbs)	≤ 3.0 N (0.67 lbs)	≤ 3.0 N (0.67 lbs)
		≥ 1.0 N (0.22 lbs)	≥ 1.0 N (0.22 lbs)	≥ 1.0 N (0.22 lbs)
Shock		IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6
Electrical				
Contact resistance		≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Current ratings		7 A	10 A	12 A
Working voltage		300 Vac/dc RMS	600 Vac RMS	250 Vac RMS
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
Agency Approvals	UL	Yes	Yes	-
	CSA	Yes	Yes	-

■ Only in fully locked position



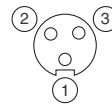
1 = Brown
2 = Black (Ground)
3 = Blue

**Reference Number
21 and 22**



1 = Green (Ground)
2 = Red w/Black
3 = Red w/White

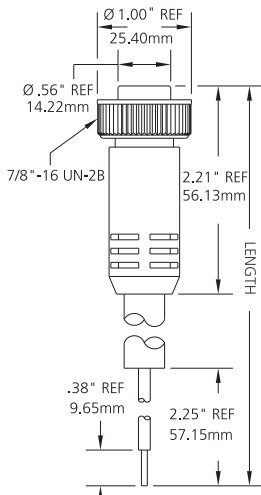
**Reference Number
23 and 24**



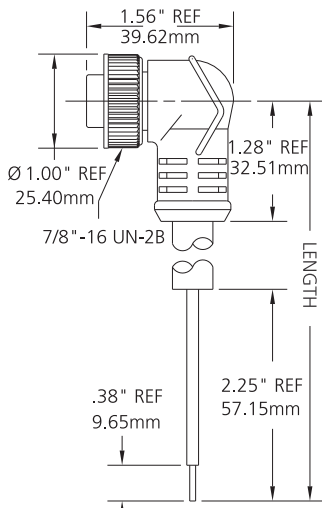
1 = Green (Ground)
2 = Red w/Black
3 = Red w/White

**Reference Number
25 and 26**

Connector Cables
Mini Style Connector Cables (Female)
DC, AC/DC without LEDs — 4 and 5 Pin



Reference Number
27, 29 and 31



Reference Number
28,30 and 32

DC 4 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
A, R4	27	6	1.8	Straight	STOOW	Yellow	XSZCA1401Y
A, R4	27	15	4.6	Straight	STOOW	Yellow	XSZCA1402Y
A, R4	27	30	9.1	Straight	STOOW	Yellow	XSZCA1403Y
A, R4	28	6	1.8	90°	STOOW	Yellow	XSZCA9401Y
A, R4	28	15	4.6	90°	STOOW	Yellow	XSZCA9402Y
A, R4	28	30	9.1	90°	STOOW	Yellow	XSZCA9403Y

AC/DC 4 Pin — Without LED

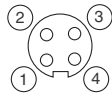
Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
—	29	6	1.8	Straight	STOOW	Yellow	XSZCA1411Y
—	29	15	4.6	Straight	STOOW	Yellow	XSZCA1412Y
—	29	30	9.1	Straight	STOOW	Yellow	XSZCA1413Y
—	30	6	1.8	90°	STOOW	Yellow	XSZCA9411Y
—	30	15	4.6	90°	STOOW	Yellow	XSZCA9412Y
—	30	30	9.1	90°	STOOW	Yellow	XSZCA9413Y

AC/DC 5 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
R5, U78	31	6	1.8	Straight	STOOW	Yellow	XSZCA1501Y
R5, U78	31	15	4.6	Straight	STOOW	Yellow	XSZCA1502Y
R5, U78	31	30	9.1	Straight	STOOW	Yellow	XSZCA1503Y
R5, U78	32	6	1.8	90°	STOOW	Yellow	XSZCA9501Y
R5, U78	32	15	4.6	90°	STOOW	Yellow	XSZCA9502Y
R5, U78	32	30	9.1	90°	STOOW	Yellow	XSZCA9503Y

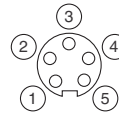
Specifications

Mechanical		Yellow Cable (STOOW)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)
Materials	Molded body	PVC - UL STD - 94
	Contact	Solid-machined brass, gold over silver plating
	Cable	STOOW
	Coupling nut	Zinc Diecast with black epoxy coat
	Insert	PUR
Cable		16 AWG, UL-STOOW; Hi-Flex bare, 65x34 copper stranding
Enclosure rating	NEMA Type ■	6P
	IEC Type ■	IP68
Insertion Force		≤ 3.0 N (0.67 lbs) ≥ 1.0 N (0.22 lbs)
Shock		IEC 60068-2-27
Vibration		IEC 60068-2-6
Electrical		
Contact resistance		≤ 5 mΩ
Current ratings		8 A
Working voltage		600 Vac/dc RMS
Dielectric withstanding voltage		1.5 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω
Agency Approvals	UL	Yes
	CSA	Yes
■ Only in fully locked position		



- 1 = Black
- 2 = White
- 3 = Red
- 4 = Green (Ground)

Reference Number
27, 28, 29 and 30



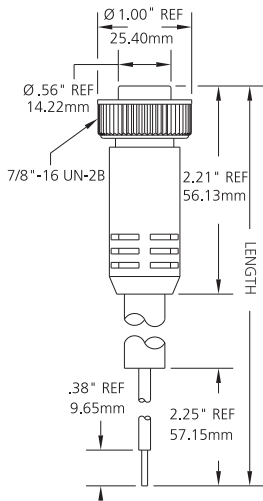
- 1 = White
- 2 = Red
- 3 = Green (Ground)
- 4 = Orange
- 5 = Black

Reference Number
31 and 32

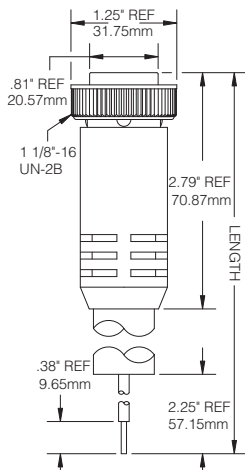
Connector Cables

Mini Style Connector Cables (Female)

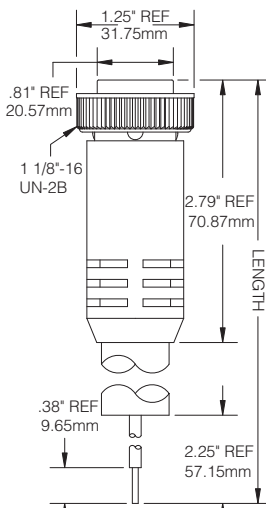
AC/DC without LEDs



Reference Number 33



Reference Number 34



Reference Number 35

AC/DC 6 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
—	33	6	1.8	Straight	STOOW	Yellow	XSZCA1601Y
—	33	15	4.6	Straight	STOOW	Yellow	XSZCA1602Y
—	33	30	9.1	Straight	STOOW	Yellow	XSZCA1603Y

AC/DC 7 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
—	34	6	1.8	Straight	STOOW	Yellow	XSZCA1701Y
—	34	15	4.6	Straight	STOOW	Yellow	XSZCA1702Y
—	34	30	9.1	Straight	STOOW	Yellow	XSZCA1703Y

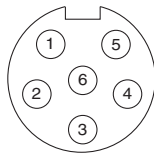
AC/DC 9 Pin — Without LED

Sensor Suffix Letter	Connector Reference Number	Cable Length		Connector Style	Cable Material	Cable Color	Catalog Number
		Feet	Meters				
—	35	6	1.8	Straight	STOOW	Yellow	XSZCA1901Y
—	35	15	4.6	Straight	STOOW	Yellow	XSZCA1902Y
—	35	30	9.1	Straight	STOOW	Yellow	XSZCA1903Y

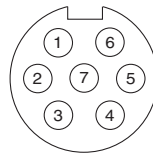
Connector Cables

Specifications

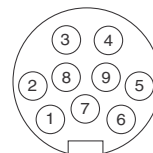
Mechanical		Yellow Cable (STOOW)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)
Materials	Molded body	PVC - UL STD - 94
	Contact	Solid-machined brass, gold over silver plating
	Cable	STOOW
	Coupling nut	Zinc Diecast with black epoxy coat
	Insert	PVC - UL STD - 94
Cable		16 AWG, UL-STOOW; Hi-Flex bare, 65x34 copper stranding
Enclosure rating	NEMA Type ■	6P
	IEC Type ■	IP68
Insertion Force		≤ 3.0 N (0.67 lbs) ≥ 1.0 N (0.22 lbs)
Shock		IEC 60068-2-27
Vibration		IEC 60068-2-6
Electrical		
Contact resistance		≤ 5 mΩ
Current ratings		8 A
Working voltage		600 Vac RMS
Dielectric withstanding voltage		1.5 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω
Agency Approvals	UL	Yes
	CSA	Yes
■ Only in fully locked position		



Reference Number 33



Reference Number 34

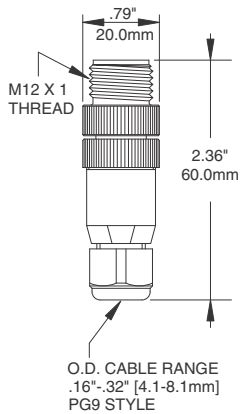


Reference Number 35

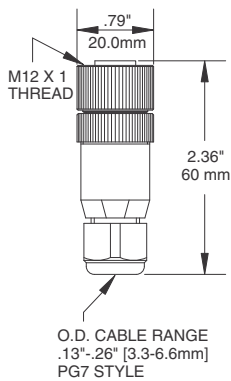
Connector Cables

Micro Style Field Attachable Connectors

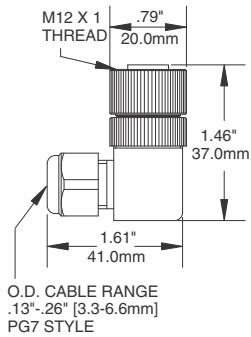
DC, AC/DC



**Reference Number
38 and 42**



**Reference Number
36 and 40**



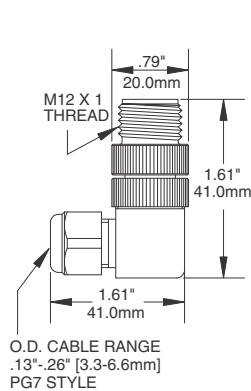
**Reference Number
37 and 41**

Micro Style DC Only

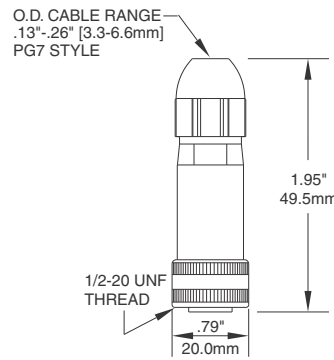
Sensor Suffix Letter	Connector Reference Number	Number of Pins	Connector Style	Male/ Female	Cable Diameter	Catalog Number
-	36	4	Straight	Female	3-6 mm	XSZFD6409
-	37	4	90°	Female	3-6 mm	XSZFD6419
-	38	4	Straight	Male	4-8 mm	XSZFD9409
-	39	4	90°	Male	3-6 mm	XSZFD9419
-	40	5	Straight	Female	3-6 mm	XSZFD6509
-	41	5	90°	Female	3-6 mm	XSZFD6519
-	42	5	Straight	Male	4-8 mm	XSZFD9509
-	43	5	90°	Male	3-6 mm	XSZFD9519

Micro Style AC/DC

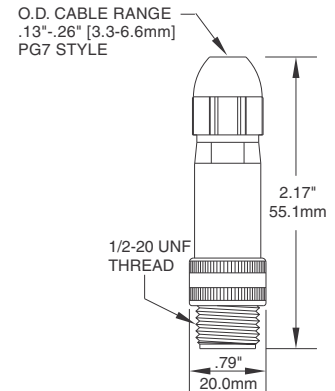
Sensor Suffix Letter	Connector Reference Number	Number of Pins	Connector Style	Male/ Female	Cable Diameter	Catalog Number
-	44	3	Straight	Female	3-6 mm	XSZFK6309
-	45	3	90°	Female	3-6 mm	XSZFK6319
-	46	3	Straight	Male	3-6 mm	XSZFK9309
-	47	3	90°	Male	3-6 mm	XSZFK9319



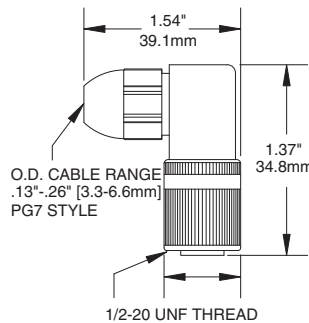
**Reference Number
39 and 43**



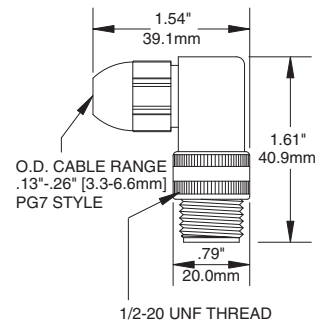
Reference Number 44



Reference Number 46



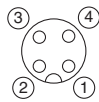
Reference Number 45



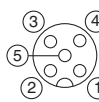
Reference Number 47

Specifications

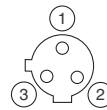
Mechanical		Micro Style AC/DC	Micro Style DC
Standard Temperature Range		-40° F to +185° F (-40° C to +85° C)	-13° F to +194° F (-25° C to +90° C)
Materials	Molded body	Nylon	Polyamide
	Contact	Gold plated copper alloy	Silver plated brass
Enclosure rating	NEMA Type ■	6P	6P
	IEC Type ■	IP68	IP68
Electrical			
Contact resistance		≤ 5 mΩ	≤ 5 mΩ
Current ratings		4 A	4 A
Working voltage		250 Vac/dc RMS	4P - 250 Vac/300 Vdc; 5P - 30 Vac/36 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω
■ Only in fully locked position			



Reference Number
36, 37, 38 and 39



Reference Number
40, 41, 42 and 43



Reference Number
44, 45, 46 and 47



Features:

- Self assembled connector allows customer to custom build a connector cable that suits his needs.
- Creates the best wiring solution quickly and with no waste of cable.
- Complete the assembly without a screwdriver or solder.
- Can be used with 3 or 4 pin receptacle.
- Color coded sleeve eliminates errors in wiring.
- For use with black cable only. Yellow cable diameter is too large.

Connector

Description Type	Mating Type	Contact Resistance Max.	Wire Size	Catalog Number
Connector	Female	8 Ohms	AWG 20 (4x0.5mm ²)	XZCC12FDM40V

Cables

Total Length	Jacket Material	Catalog Number
25 m (82 ft.)	PvR	XZCB4L0025
50 m (164 ft.)	PvR	XZCB4L0050
100 m (328 ft.)	PvR	XZCB4L0100
500 m (1640 ft.)	PvR	XZCB4L0500
1000 m (3280 ft.)	PvR	XZCB4L1000

Assemble in Five Easy Steps:

- Step # 1 Trim 22 mm of the outer sheath of the cable.
- Step # 2 Slide wire nut, grommet and rubber washer assembly over the cable.
- Step # 3 Slide plastic body over the assembly and place conductors in the color coded insert.
- Step # 4 Attach metal ring and tighten counterclockwise.
- Step # 5 Connect to any Square D/Telemecanique SNAP-C™ Compatible Sensor.

Specifications

Mechanical

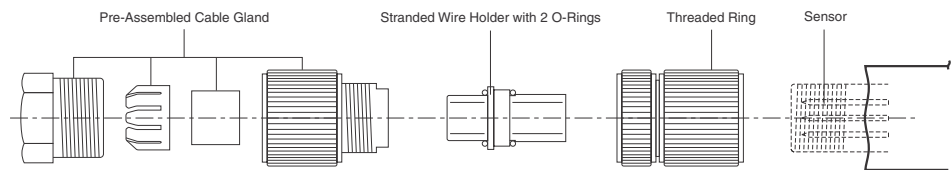
Temperature Range		-13° to 158° F (-25° to 70° C)
Enclosure Rating	CENELEC Type	IP67
Enclosure Material		Plastic Body, Metal Locking Ring
Torque		50–60 Ncm
Cable Gland Size		Pg7 (7 P) 6 mm Diameter
Wiring		3 or 4 wires 0.5 mm ² (AWG20)

Electrical

DC Nominal Voltage (max)		60 V
Nominal Current (max.)		4 A
Contact Resistance (max)		8 Ohms
Conformity		EN50044 and IEC 60947-5-2

Accessories

Description	Catalog Number
Cable Stripping Servicing Tool	XZCG01M
Cable Stripping Professional Tool	XZCG02P



Connector Cables

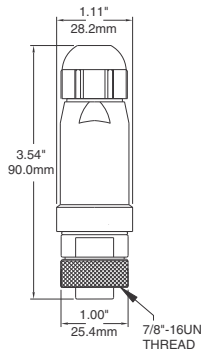
Mini and International Field Attachable Connectors

AC/DC



Mini Style AC/DC

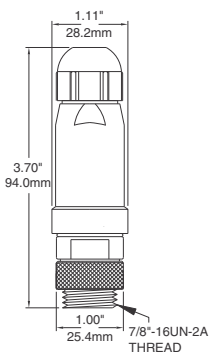
Sensor Suffix Letter	Connector Reference Number	Number of Pins	Connector Style	Male/ Female	Cable Diameter	Catalog Number
—	48	3	Straight	Female	5–12 mm	XSZFA6301
—	49	3	Straight	Male	5–12 mm	XSZFA9301
—	52	5	Straight	Female	5–12 mm	XSZFA6501
—	53	5	Straight	Male	5–12 mm	XSZFA9501



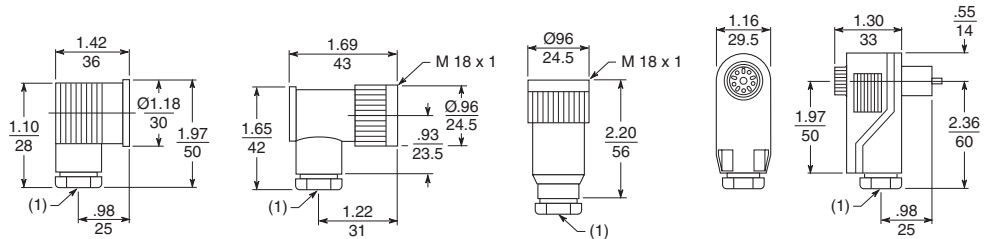
Reference Number
48 and 52

International Types

Sensor Suffix Letter	Connector Reference Number	Number of Pins	Connector Style	Male/ Female	Cable Diameter	Catalog Number
C	54	4	DIN 43650 Form A, 90°	Female	6–8 mm	XZCC43FCP40B
G	55	4	M18, 90°	Female	6.5–8 mm	XZCC18FCP40B
G	56	4	M18, Straight	Female	6.5–8 mm	XZCC18FDP40B
T	57	5	Type 717, 90°	Female	5–11 mm	XZCC51FCP50B



Reference Number
49 and 53



Reference Number 54

Reference Number 55

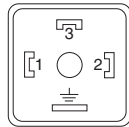
Reference Number 56

Reference Number 57

Specifications

Mechanical			
		Mini Style	International Styles
Standard Temperature Range		-40° F to +176° F (-40° C to +80° C)	-40° F to +257° F (-40° C to +125° C)
Materials	Molded body	Polyamide	PA
	Coupling Nut	Nickel plated brass	Cu Zn/Sn
	Contact	Brass, gold over nickel plated	Cu Zn
	Insert	PUR	PA
Enclosure rating	NEMA Type ■	6P	-
	IEC Type ■	IP68	IP65
Electrical			
Contact resistance		≤ 5 mΩ	≤ 5 mΩ
Current ratings	3-Pole	13 A	-
	5-Pole	8 A	16 A
Working voltage		600 Vac/dc	250 Vac
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω
Agency Approvals	CSA	Yes	-

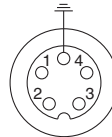
■ Only in fully locked position



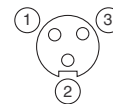
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Number 54**



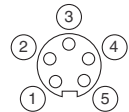
**Reference
Number
55 and 56**



**Reference
Number 57**



**Reference
Number
48 and 49**

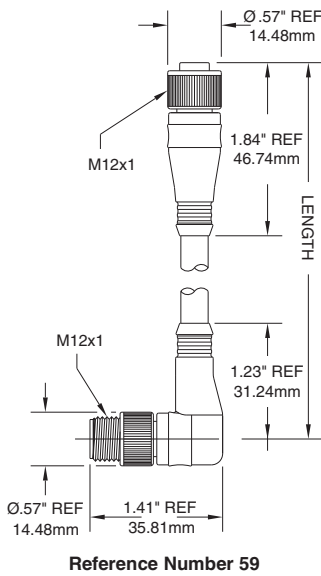
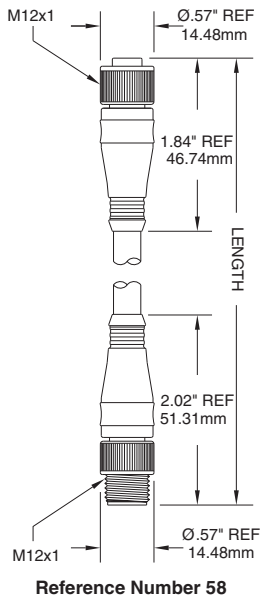


**Reference
Number
52 and 53**

Connector Cables

Micro and Nano Style Extension Cables

DC

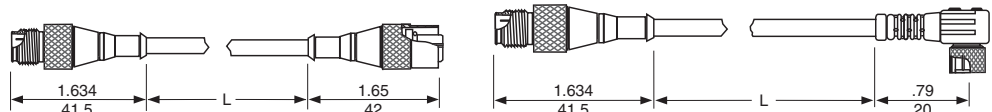


Micro Style 4 Pin DC to Micro Style 4 Pin DC

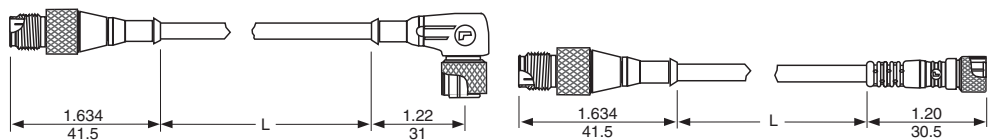
Connector Reference Number	Female Connector Type	Female Conn. Style	Male Connector Type	Male Conn. Style	Cable Length		Cable Color/Material	Catalog Number
					Feet	Meters		
58	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVC	XSZEDD1020
58	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVC	XSZEDD1040
59	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	90°	3.3	1	Black/PVC	XSZEDD1120
59	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	90°	6.6	2	Black/PVC	XSZEDD1140
60	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1511040A1
60	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1511040A2
61	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1512040A1
61	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1512040A2
62	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1511040E1
62	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1511040E2
63	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1512040E1
63	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1512040E2
64	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1511062B1
64	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1511062B2
65	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1512062B1
65	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1512062B2
66	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1511062F1
66	Micro Style 4 Pin DC	Straight	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1511062F2
67	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1512062F1
67	Micro Style 4 Pin DC	90°	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1512062F2

Nano Style 3 Pin DC to Micro Style 4 Pin DC

Connector Reference Number	Female Connector Type	Female Conn. Style	Male Connector Type	Male Conn. Style	Cable Length		Cable Color/Material	Catalog Number
					Feet	Meters		
70	Nano Style 3 Pin DC	Straight	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1501040G1
70	Nano Style 3 Pin DC	Straight	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1501040G2
71	Nano Style 3 Pin DC	90°	Micro Style 4 Pin DC	Straight	3.3	1	Black/PVR	XZCR1502040G1
71	Nano Style 3 Pin DC	90°	Micro Style 4 Pin DC	Straight	6.6	2	Black/PVR	XZCR1502040G2



Reference Number 71

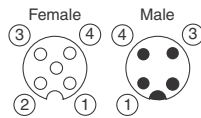


Reference Number 70

Specifications

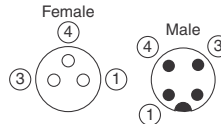
Mechanical		Black Cable (PVC)	Black Cable (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	PBT	TPU
	Contact	Copper alloy, gold over nickel plating	Cu Zn
	Cable	PVC, Self extinguishing	PVR (PVC/NBR)
	Coupling nut	Brass, nickel plated	Cu Zn
	Insert	PBT	TPU
Cable		22 AWG; Hi-Flex bare, copper stranding 300V UL style 2661	0.34 mm ² (22 AWG) conductor, PVC
Enclosure rating	NEMA Type ■	6P	–
	IEC Type ■	IP68	IP67
Insertion Force	Contact	≤ 2N (0.45 lbs)	≤ 2N (0.45 lbs)
Withdrawal Force	Contact	≥ 0.5N (0.11 lbs)	≥ 0.5N (0.11 lbs)
Shock		IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6
Electrical			
Contact resistance		≤ 5 mΩ	≤ 5 mΩ
Current ratings		4 A	4 A
Working voltage		250 Vac/dc	10-30 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	1.5 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω
Agency Approvals	CSA	Yes	–

■ Only in fully locked position



- 1 = Brown
- 2 = Blank
- 3 = Blue
- 4 = Black

Reference Number
58, 59, 60, 61, 62, 63,



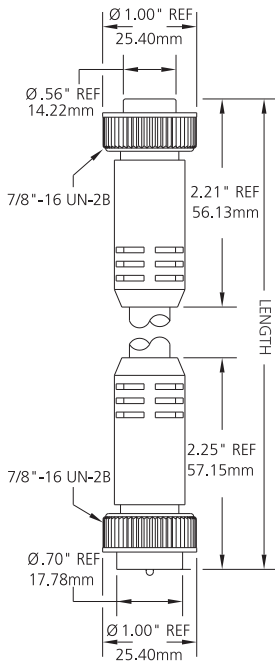
- 1 = Brown
- 3 = Blue
- 4 = Black

Reference Number
70 and 71

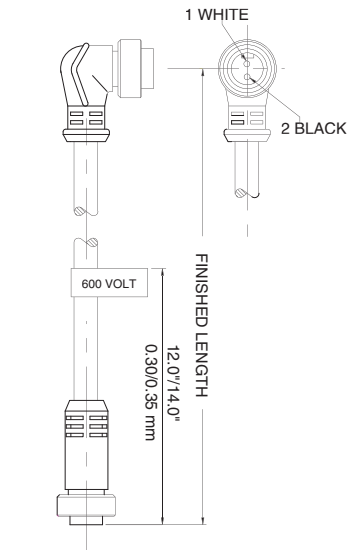
Connector Cables

Mini, Micro and DIN Style Extension Cables

DC, AC and AC/DC



Reference Number 72



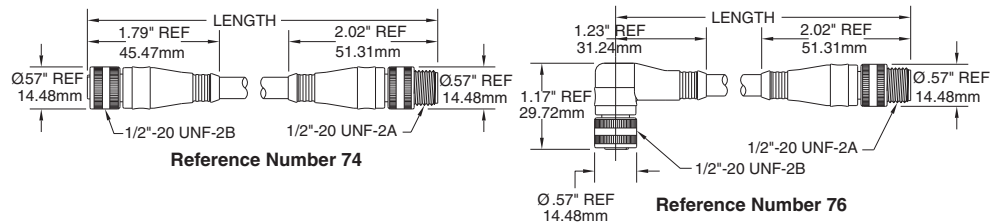
Reference Number 73

Mini Style 3 Pin AC/DC to Mini Style 3 Pin AC/DC

Connector Reference Number	Female Connector Type	Female Connector Style	Male Connector Type	Male Connector Style	Cable Length		Cable Color/Material	Catalog Number
					Feet	Meters		
72	Mini Style 3 Pin	Straight	Mini Style 3 Pin	Straight	3	0.9	STOOW	XSZEEA3030
72	Mini Style 3 Pin	Straight	Mini Style 3 Pin	Straight	6	1.8	STOOW	XSZEEA3060
72	Mini Style 3 Pin	Straight	Mini Style 3 Pin	Straight	12	3.7	STOOW	XSZEEA3012
73	Mini Style 3 Pin	Straight	Mini Style 3 Pin	90°	3	0.9	STOOW	XSZEEA3130
73	Mini Style 3 Pin	Straight	Mini Style 3 Pin	90°	6	1.8	STOOW	XSZEEA3160
73	Mini Style 3 Pin	Straight	Mini Style 3 Pin	90°	12	3.7	STOOW	XSZEEA3112

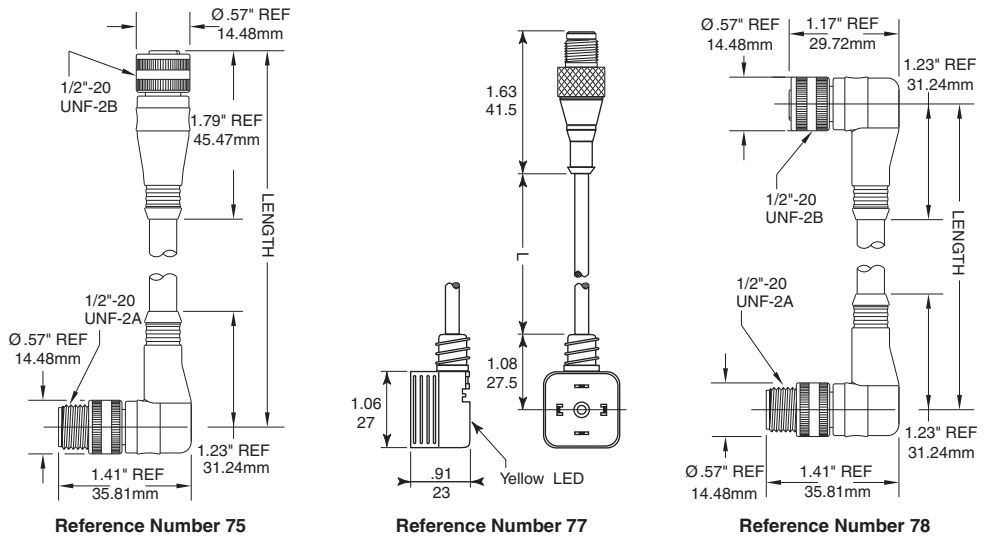
Micro Style 3 Pin AC to Micro Style 3 Pin AC

Conn. Ref. Number	Female Connector Type	Female Conn. Style	Male Connector Type	Male Conn. Style	Cable Length		Cable Color/Material	Catalog Number
					Feet	Meters		
74	Micro Style 3 Pin AC/DC	Straight	Micro Style 3 Pin AC/DC	Straight	3.3	1	Yellow/PVC	XSZEKK1020Y
74	Micro Style 3 Pin AC/DC	Straight	Micro Style 3 Pin AC/DC	Straight	6.6	2	Yellow/PVC	XSZEKK1040Y
75	Micro Style 3 Pin AC/DC	Straight	Micro Style 3 Pin AC/DC	90°	3.3	1	Yellow/PVC	XSZEKK1021Y
75	Micro Style 3 Pin AC/DC	Straight	Micro Style 3 Pin AC/DC	90°	6.6	2	Yellow/PVC	XSZEKK1041Y
76	Micro Style 3 Pin AC/DC	90°	Micro Style 3 Pin AC/DC	Straight	3.3	1	Yellow/PVC	XSZEKK2120Y
76	Micro Style 3 Pin AC/DC	90°	Micro Style 3 Pin AC/DC	Straight	6.6	2	Yellow/PVC	XSZEKK2140Y
78	Micro Style 3 Pin AC/DC	90°	Micro Style 3 Pin AC/DC	90°	3.3	1	Yellow/PVC	XSZEKK2121Y
78	Micro Style 3 Pin AC/DC	90°	Micro Style 3 Pin AC/DC	90°	6.6	2	Yellow/PVC	XSZEKK2141Y



DIN 43650 Form A 4 Pin to Micro Style 5 Pin

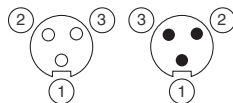
Connector Reference Number	Female Connector Type	Female Conn. Style	Male Connector Type	Male Conn. Style	Cable Length		Cable Color/Material	Catalog Number
					Feet	Meters		
77	DIN 43650 Form A 4 Pin	90°	Micro Style 5 Pin DC	Straight	3.3	1	Black/PVR	XZCR1523D62K1
77	DIN 43650 Form A 4 Pin	90°	Micro Style 5 Pin DC	Straight	6.6	2	Black/PVR	XZCR1523D62K2



Specifications

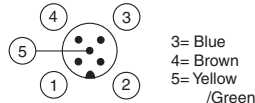
Mechanical		Mini Style Yellow Cable (STOOW)	Micro Style Yellow Cable (PVC)	DIN 43650 Form A (PVR)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)	-4° F to +221° F (-20° C to +105° C)	-31° F to +212° F (-35° C to 100° C)
Materials	Molded body	PVC - ULSTD - 94	PVC - ULSTD - 94	TPU
	Contact	Solid-machined brass, gold over silver plating	Copper alloy, gold over nickel plating	Cu Zn
	Cable	STOOW	PVC	PVR (PVC/NBR)
	Coupling nut	Zinc diecast with black epoxy coat	Brass, nickel plated	Cu Zn
	Insert	PVC - ULSTD - 94	Nylon 6/6	TPU
Cable		16 AWG, UL-STOOW; Hi-Flex bare, 65x34 copper stranding	22 AWG, UL-2661; Hi-Flex bare, 26 x 36 AWG copper stranding, 300V	22 AWG conductor, PVC
Enclosure rating	NEMA Type ■	6P	6P	—
	IEC Type ■	IP68	IP68	IP67
Insertion Force	Contact	≤ 3N (0.67 lbs)	≤ 2N (0.45 lbs)	≤ 2N (0.45 lbs)
Withdrawal Force	Contact	≥ 1.0N (0.22 lbs)	≥ 0.5N (0.11 lbs)	≥ 0.5N (0.11 lbs)
Shock		IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6	IEC 60068-2-6
Electrical				
Contact resistance		≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ
Current ratings		13 A	4 A	4 A
Working voltage		600 Vac RMS	250 Vac/dc	30 Vac/36 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
Agency Approvals	UL	Yes	Yes	—
	CSA	Yes	Yes	—

■ Only in fully locked position



1 = Green
2 = Red w/Black
3 = Red w/White

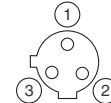
Reference Number
72 and 73



3= Blue
4= Brown
5= Yellow /Green

1= Brown
2= Blue
= Yellow /Green

Reference
Number 77



1 = Green
2 = Red/Black
3 = Red/White

Reference Number
74, 75, 76 and 78

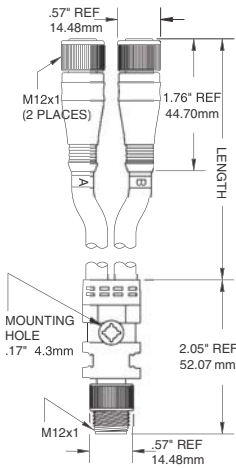
Connector Cables

Micro to Micro Splitter Cables

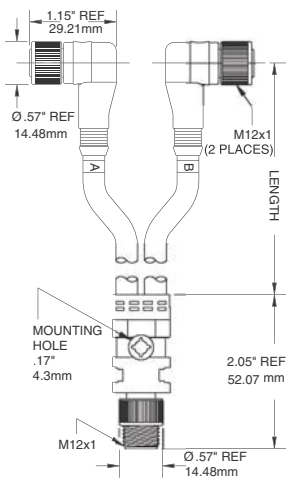
DC

Micro Style to Micro Style

Connector Reference Number	Female Connector Type	Female Conn. Style	Male Connector Type	Male Conn. Style	Cable Length		Cable Color/ Material	Catalog Number
					Feet	Meters		
78	2 # Micro Style 4 Pin DC	Straight	1 # Micro Style 4 Pin DC	Straight	3.3	1	Yellow/PVC	XSZSDD12401Y
78	2 # Micro Style 4 Pin DC	Straight	1 # Micro Style 4 Pin DC	Straight	5.1	1.5	Yellow/PVC	XSZSDD12402Y
79	2 # Micro Style 4 Pin DC	90°	1 # Micro Style 4 Pin DC	Straight	3.3	1	Yellow/PVC	XSZSDD22401Y
79	2 # Micro Style 4 Pin DC	90°	1 # Micro Style 4 Pin DC	Straight	5.1	1.5	Yellow/PVC	XSZSDD22402Y



Reference Number 78



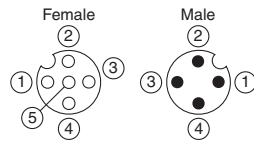
Reference Number 79

Connector Cables

Specification

Mechanical		
		Yellow Cables (TPE)
Standard Temperature Range		-4° F to +221° F (-20° C to +105° C)
Materials	Molded body	PVC
	Contact	Brass, gold over nickel plating
	Cable	TPE
	Coupling nut	Zinc diecast with black epoxy coat
	O-Ring	Nitrice Rubber
	Insert	Nylon 6/6
Cable		22 AWG
Enclosure rating	NEMA Type ■	6P
	IEC Type ■	IP68
Insertion Force	Contact	≤ 2N (0.45 lbs)
Withdrawal Force	Contact	≥ 0.5N (0.11 lbs)
Shock		IEC 60068-2-27
Vibration		IEC 60068-2-6
Electrical		
Contact resistance		≤ 5 mΩ
Current ratings		4 A
Working voltage		250 Vac/dc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω
Agency Approvals	UL	Yes
	CSA	Yes

■ Only in fully locked position

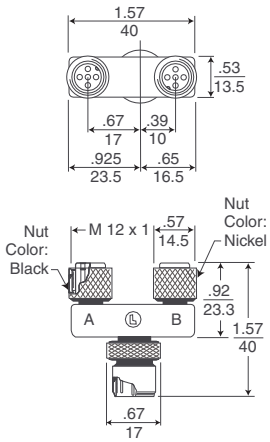


Reference Number
78 and 79

Connector Cables

Micro Style Splitter Boxes

DC



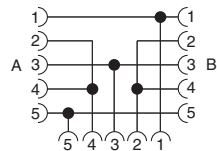
Reference Number 85

Splitter Box

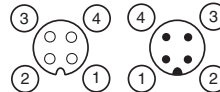
Connector Reference Number	Female Connector Type	Female Connector Style	Male Connector Type	Male Connector Style	Box Color	Catalog Number
85	2 # Micro Style 4 Pin DC	Straight	1 # Micro Style 4 Pin DC	Straight	Black	XZLC1220C1

Specifications

Mechanical		
		Splitter Boxes (Black)
Standard Temperature Range		-5° F to +212° F (-15° C to +100° C)
Materials	Molded body	TPU
	Contact	Cu Zn
	Coupling nut	Cu Zn
	O-Ring	Viton
	Insert	TPU
Enclosure rating	NEMA Type ■	-
	IEC Type ■	IP67
Insertion Force	Contact	≤ 2N (0.45 lbs)
Withdrawal Force	Contact	≥ 0.5N (0.11 lbs)
Shock		IEC 60068-2-27
Vibration		IEC 60068-2-6
Electrical		
Contact resistance		≤ 5 mΩ
Current ratings		4 A per input, 4 A max. per box
Working voltage		10-30 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω
Agency Approvals	UL	-
	CSA	-
<p>■ Only in fully locked position</p>		



Reference Number 85



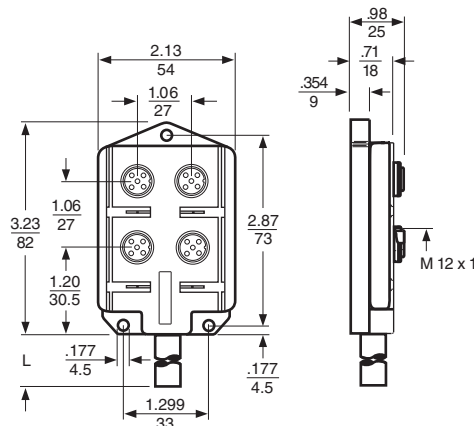
Reference Number 85

Connector Cables
Sensor Dock (Connector Box)
DC

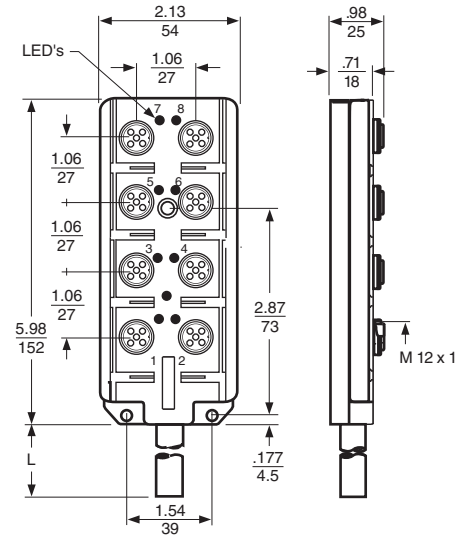


DC Only (Without LED's)

Connector Reference Number	Female Connector Type	AC/DC	Number of Input Connectors	Cable Length/ Output Connector		Box Color/ Material	Cable Color/ Material	Catalog Number
				Feet	Meters			
88	Micro Style 4 Pin DC	DC	4	16.4	5	Black	Black	XZLC1240L5
88	Micro Style 4 Pin DC	DC	4	32.8	10	Black	Black	XZLC1240L10
90	Micro Style 4 Pin DC	DC	8	16.4	5	Black	Black	XZLC1280L5
90	Micro Style 4 Pin DC	DC	8	32.8	10	Black	Black	XZLC1280L10
88	Micro Style 4 Pin DC	DC	4	16.4	5	Yellow	Black/Purple	XSZLD1405Y
88	Micro Style 4 Pin DC	DC	4	32.8	10	Yellow	Black/Purple	XSZLD1406Y
90	Micro Style 4 Pin DC	DC	8	16.4	5	Yellow	Black/Purple	XSZLD1805Y
90	Micro Style 4 Pin DC	DC	8	32.8	10	Yellow	Black/Purple	XSZLD1806Y



Reference Number 88



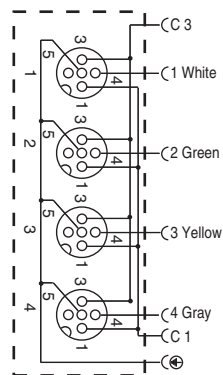
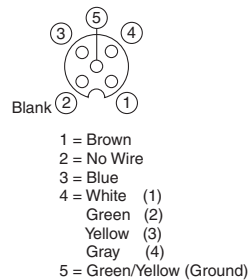
Reference Number 90

Connector Cables

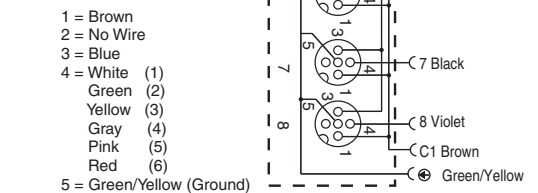
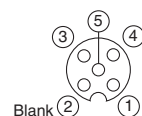
Specifications

Mechanical		Micro Style DC (XZLC_)	XSZLD
Standard Temperature Range		-31° F to +212° F (-35° C to +100° C)	-13° F to +194° F (-25° C to + 90° C)
Materials	Molded body	TPU	PBT
	Contact	Cu Zn	Nickel Plated Brass
	Receptacle Shell	Cu Zn	Nickel Plated Brass
	O-Ring	Viton	Viton
	Insert	PA 6.6	PBT
Cable		PUR	PUR
Enclosure rating	NEMA Type ■	-	6P
	IEC Type ■	IP67	IP68
Insertion Force	Contact	≤ 2N (0.45 lbs)	≤ 2N (0.45 lbs)
Withdrawal Force	Contact	≥ 0.5N (0.11 lbs)	≥ 0.5N (0.11 lbs)
Shock		IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6
Electrical			
Contact resistance		≤ 5 mΩ	≤ 5 mΩ
Current ratings		4 A per input, 12 A max. per box	2 A per input, 12 A max.
Working voltage		60 Vac/75 Vdc	10 - 30 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	2 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω
Agency Approvals	UL	-	-
	CSA	-	-

■ Only in fully locked position



Reference Number 88



Reference Number 90

Connector Cables

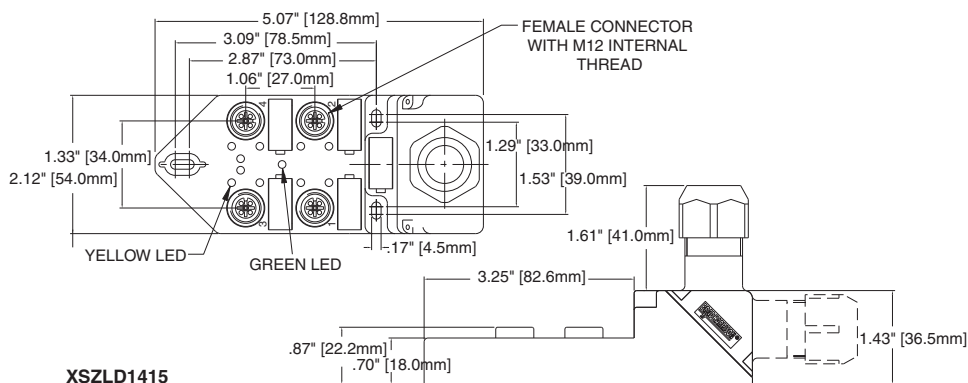
Micro Style Sensor Dock (Connector Box) with Output LEDs

DC

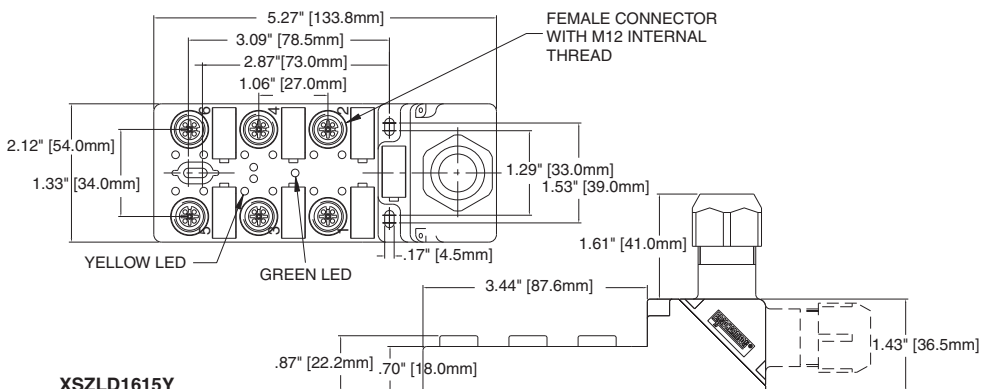


DC Only

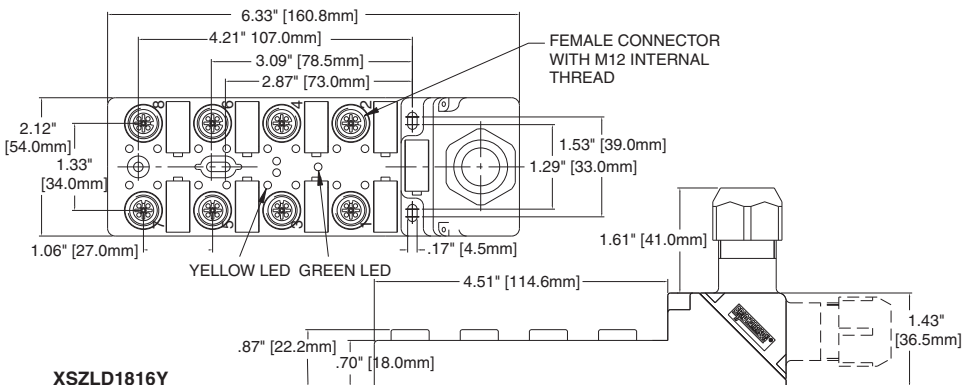
Connector Reference Number	Female Connector Type	Output LED Type	Number of Input Connectors	Cable Length/ Output Connector		Box Color/ Material	Cable Color/ Material	Catalog Number
				Feet	Meters			
97	Micro Style 4 Pin DC	PNP Input Only!	4	N/A	N/A	Yellow	–	XSZLD1415
97	Micro Style 4 Pin DC	PNP Input Only!	4	16.4	5	Black	Black	XZLC1241L5
97	Micro Style 4 Pin DC	PNP Input Only!	4	32.8	10	Black	Black	XZLC1241L10
99	Micro Style 4 Pin DC	PNP Input Only!	6	N/A	N/A	Yellow	–	XSZLD1615Y
100	Micro Style 4 Pin DC	PNP Input Only!	8	N/A	N/A	–	–	XSZLD1816Y
100	Micro Style 4 Pin DC	PNP Input Only!	6	16.4	5	Black	Black	XZLC1281L5
100	Micro Style 4 Pin DC	PNP Input Only!	8	32.8	10	Black	Black	XZLC1281L10



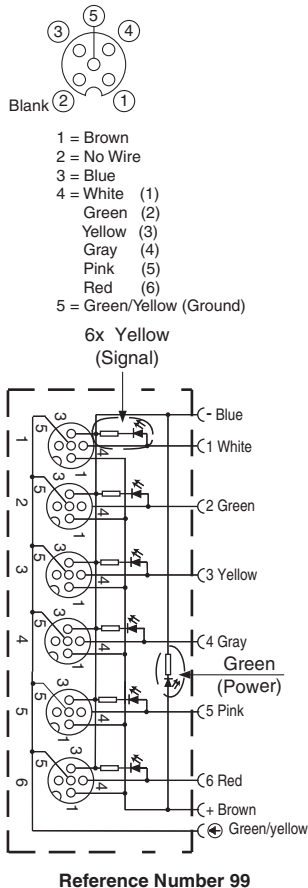
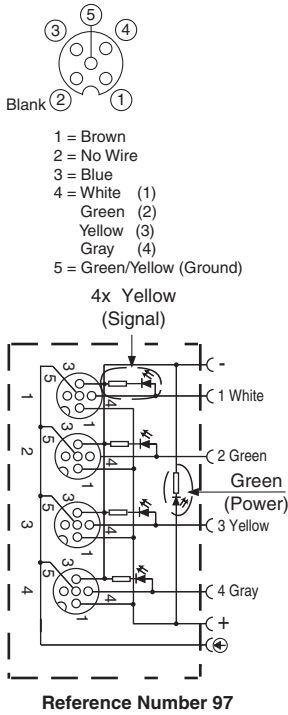
XSZLD1415



XSZLD1615Y



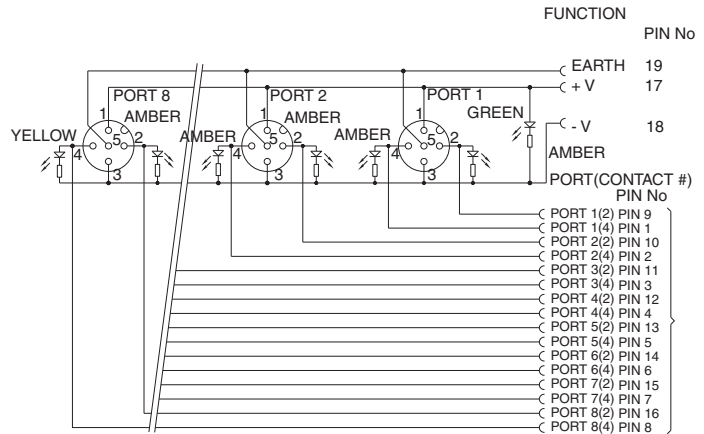
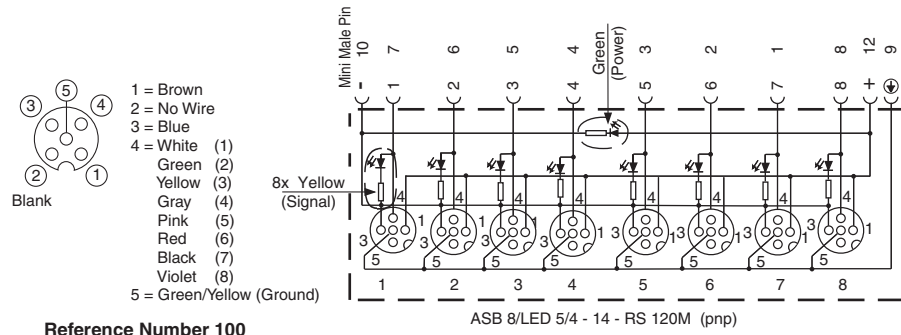
XSZLD1816Y



Specifications

Mechanical		Micro DC (XSZ LD__)	Micro DC (XZLC__)
Standard Temperature Range		-	-31° F to +212° F (-35° C to +100° C)
Materials	Molded body	PBT	TPU
	Contact	Brass, gold over nickel plating	Cu Zn
	Receptacle Shell	Brass, nickel plated	Cu Zn
	O-Ring	Viton	Viton
	Insert	PBT	PA 6.6
Screw Terminals, Max. 18 AWG, PG 16		-	PUR
Enclosure rating	NEMA Type ■	6P	-
	IEC Type ■	IP68	IP67
Insertion Force	Contact	≤ 2N (0.45 lbs)	≤ 2N (0.45 lbs)
Withdrawal Force	Contact	≥ 0.5N (0.11 lbs)	≥ 0.5N (0.11 lbs)
Shock		IEC 60068-2-27	IEC 60068-2-27
Vibration		IEC 60068-2-6	IEC 60068-2-6
Electrical			
Contact resistance		≤ 5 mΩ	≤ 5 mΩ
Current ratings		2 A per input, 12 A max. per box	4 A per input, 12 A max. per box
Working voltage		10-30 Vdc	10 to 30 Vdc
Dielectric withstanding voltage		2 kVac/RMS/60 Seconds	1 kVac/RMS/60 Seconds
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω
LED (LED versions only)	Green	Power	Power
	Yellow	Sensor Output Signal (PNP)	Sensor Output Signal (PNP)
Agency Approvals	UL	-	-
	CSA	-	-

■ Only in fully locked position



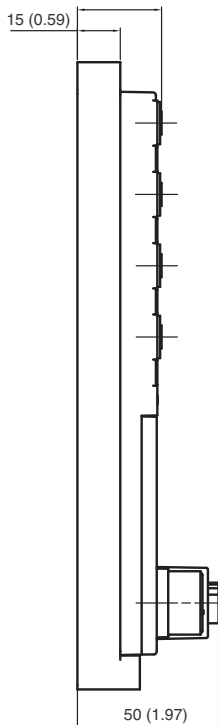
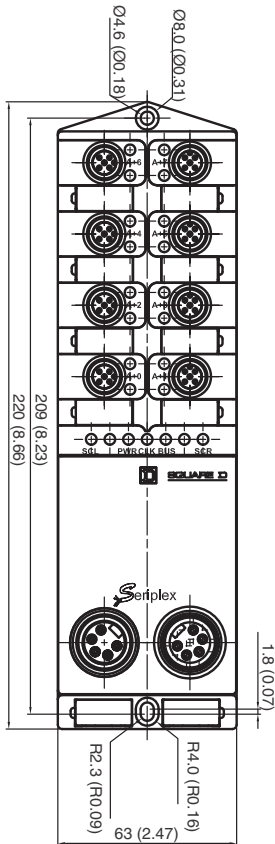
Connector Cables

SERIPLEX® Intelligent Wiring System

IP67 Eight-Input I/O Module, SPX8P8D2Q



Dimensions, mm (in.)



Product Description

The sensor concentrator IP67 discrete I/O module:

- Serves as an interface between the SERIPLEX control bus and most any input device (such as DC sensors, limit switches, and push buttons)
- Uses multi bit core circuitry
- Is scanned every frame if the CPU interface card uses multiplexed operation

Features

- Each module has eight inputs—the higher density I/O count simplifies installation and setup.
- The inputs are ideal for use with sensors, mechanical limit switches, and push buttons.
- Short circuit protection is built into the module and provided separately for the left side and right side. A short on one side does not bring down the whole module—useful when system redundancy is needed.
- Addressing is simplified—Address A and B set the starting and ending address points for all eight inputs.
- Complementary data retransmission (CDR) is a user-settable option.
- Peer-to-peer and master/slave operation are user-settable options.
- LEDs indicate operating and fault conditions for:
 - input status
 - I/O module functionality
 - control bus functionality
 - input short circuit condition
- Only one bus connection is needed for all eight I/O devices.
- Having both an input and an output bus connection eliminates the need for a tee connector, further reducing installed cost.

LED Operation

LED	Enclosure Marking	Indicator Color—Action	Indication
Inputs	A+0 through A+7	yellow—steady on	Channel is active (input is on).
Power supply	PWR	green—steady on	Control bus power supply is on.
Control bus status	BUS	green—steady on	Control bus is active and functioning properly.
Clock line status	CLK	green—steady on blinking off	Valid clock signal is present. Host is attempting clock re-start. No clock signal is present.
Short circuit detected (left side)	SCL	red—steady on	An input device short circuit occurred for the left hand column of inputs (A+0, A+2, A+4, A+6).
Short circuit detected (right side)	SCR	red—steady on	An input device short circuit occurred for the right hand column of inputs (A+1, A+3, A+5, A+7).

▲ Only with Auto Restart enabled at the host interface card.

Product Selection

Catalog Number	Description
SPX8P8D2Q	Discrete, eight-input module with IP67 rated enclosure

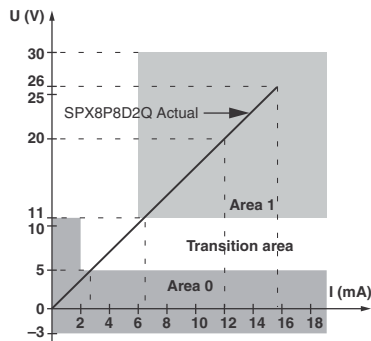
Options, Replacement Parts, and Accessories

Catalog Number	Package Quantity	Description
SPXCAPBUSF	1	Sealing cap for the female control bus port
SPXCAPM12	10	Sealing cap for the M12 field I/O micro connectors
SPXTABA	10	Replacement field I/O and control bus user labels

Other Products

Description	Page Number in Catalog 8330CT9601R4/99
SPXSST2 Set-Up Tool	48–52
Cabling Components	39–44
CPU Interface Cards	11
Power Supplies	6
System Overview	3–8

Input Characteristics According to IEC61131-2, Type 2



Control Bus Specifications

SERIPLEX bus power requirements	
nominal voltage rating	24 Vdc
power supply voltage rating	19.2 to 30 Vdc (including ripple)
Typical bus power supply current drain 25 °C (77 °F), 24 Vdc	35 mA (excluding input device load)
Worst case power supply current drain -25 °C (-13 °F), 30 Vdc	50 mA (excluding input device load)
Module capacitance	120 pF
Bus clock frequency operating range	10 to 192 kHz
Reverse polarity protection	to 30 Vdc for + and - bus power leads

General Specifications

Temperature ratings	
Operating	-25 to +70 °C (+13 to +158 °F)
Addressing and setup	0 to +60 °C (+32 to +140 °F)
Storage	-40 to +80 °C (-40 to +176 °F)
Relative humidity	100% condensing
Enclosure rating	IP67
Micro-environmental category (IEC 60664-1, Section 2.4.1)	3
Shock (IEC 60068-2-27)	30 g, 3 axis, 11 ms duration
Vibration (IEC 60068-2-6)	10 to 58 Hz, 1 mm peak-to-peak, 0.5 hour each in 3 axis 58 to 150 Hz, constant acceleration 5 g
I/O circuit isolation	
Channel-to-channel	none
Channel-to-bus	none
Channel-to-I/O earth ground	700 Vac / 1000 Vdc
Approvals, certifications, and markings	CE Mark UL cUL FM (pending)
Maximum power/heat dissipation per module	18.15 W total (bus power + I/O conducting) 1.5 W bus power only (@ 30 Vdc)
Tightening torque	
M12 I/O connectors	5.3 lb-in (0.6 N•m)
Cover holes	13.3 lb-in (1.5 N•m)

Electromagnetic Compatibility (EMC) of the Sensor Concentrator

Standard	Description	Value		
IEC 61000-4-2	ESD	Contact discharge: 4 kV Air discharge: 8 kV		
IEC 61000-4-3	Electromagnetic Field	10 V/m		
ENV 50204	High Frequency Field	10 V/m		
IEC 61000-4-8	Magnetic Field 50 Hz	30 A/m		
Standard	Description	Network Power	Clock and Data Lines	I/O Circuits
IEC 61000-4-4	Fast Transient Burst [▲]	2 kV (power/clock/data lines)		1 kV
IEC 61000-4-5	Surge	500 V	1 kV	1 kV
IEC 61000-4-6	Conducted RFI (radio frequency immunity)	10 V _{rms}	10 V _{rms}	10 V _{rms}

[▲] Coupled through capacitive clamp.

Input Specifications

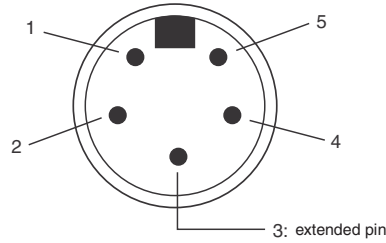
Number of inputs	8
Input type	Type 2 per IEC61 131-2 (three-wire PNP sensors or mechanical contact inputs)
Bus-supplied input voltage	
Nominal	20 Vdc
Operating voltage range	15 to 26 Vdc
Available I/O current	
Total for left side (ports A+0, A+2, A+4, A+6)	320 mA
Total for right side (ports A+1, A+3, A+5, A+7)	320 mA
Short circuit trip current for inputs	330 mA total per side
Reverse polarity protection	to 30 Vdc
On-state and off-state input voltage	See the figure below for input characteristics according to IEC61131-2, Type 2
Max. input signal current at rated voltage	16 mA @ 26 Vdc
Max. off-state leakage current	See the figure below for input characteristics according to IEC61131-2, Type 2
Off-to-on response time [▲]	1 ms (max.)
On-to-off response time [▲]	1 ms (max.)

[▲] Turn-on/turn-off time is the electrical turn-on/turn-off time of the module. Due to the nature of the SERIPLEX control bus, there is a possible delay before the signal registers on the SERIPLEX data line. The response time is a function of clock rate, frame size, and CDR use. Refer to *SERIPLEX Design, Installation and Troubleshooting*, bulletin 30298-035-01_, for more information.

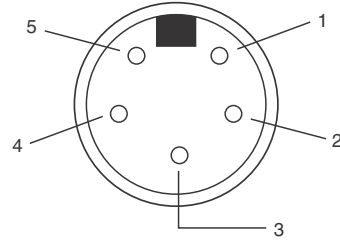
Wiring—Control Bus Connections

Pin No.	Conductor Color	Function
1	orange or bare	shield drain
2	red	bus power (V+)
3	black	bus common
4	blue	clock line
5	white	data line

**Bus In
 (Mini-style Connector)—
 External Threads (Male)**



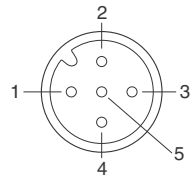
**Bus Out
 (Mini-style Connector)—
 Internal Threads (Female)**



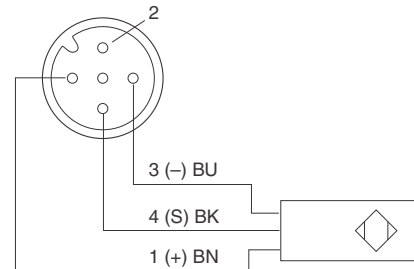
Wiring—Field I/O Port Connections

Pin No.	Function
1	Bus-supplied input voltage +20 Vdc nominal
2	No connection
3	0 Vdc or common
4	Input signal
5	Input device earth ground (PE: Physical Earth) Internally connected to the grounding terminal

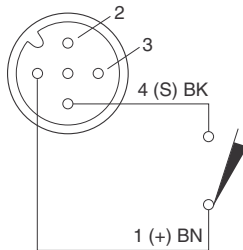
**Micro-Style (M12) Input Receptacles
 (Female)**

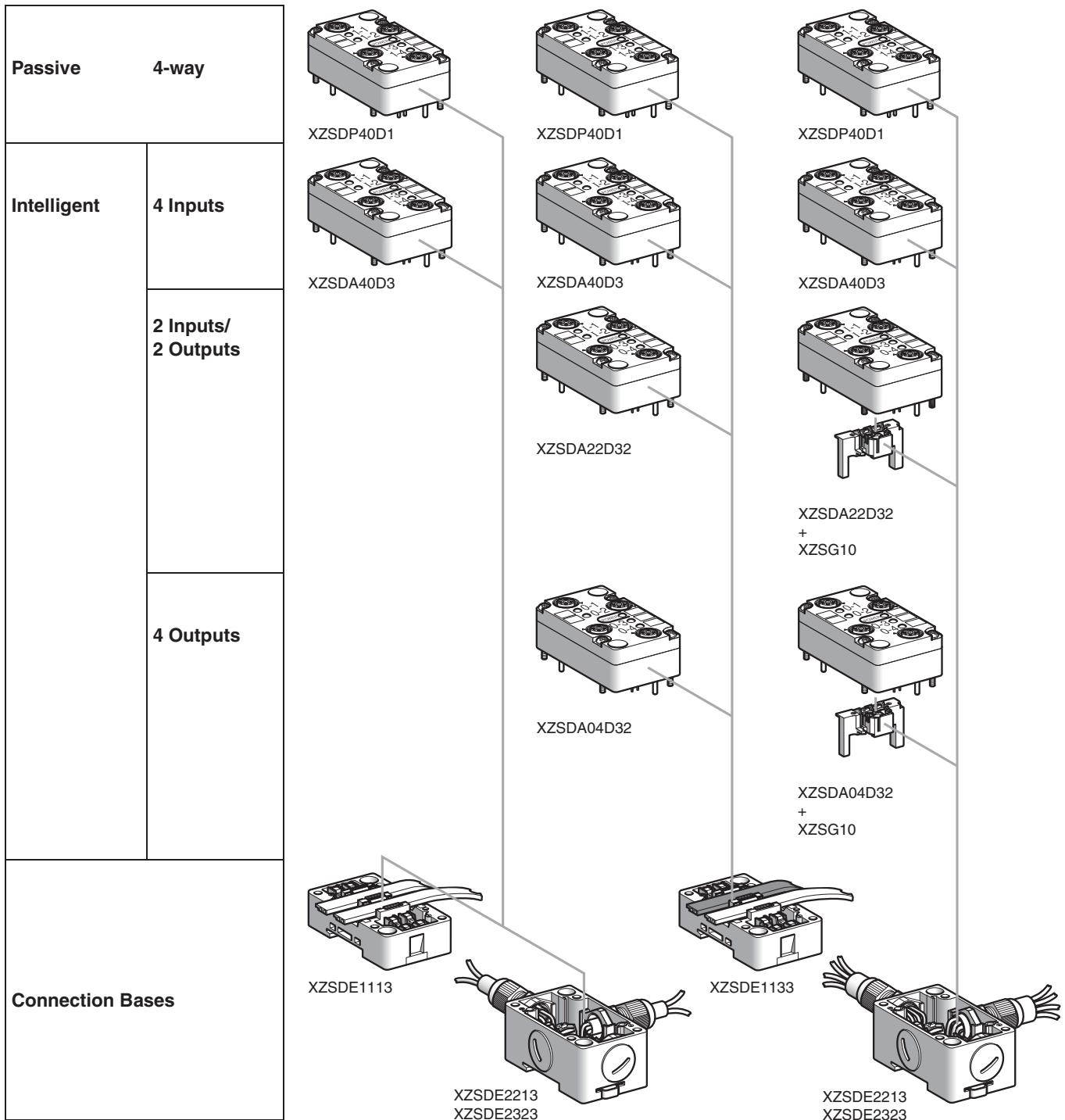


**Three-Wire PNP Sensor Wired to M12
 Connector**



**Mechanical Contacts Wired to M12
 Connector**

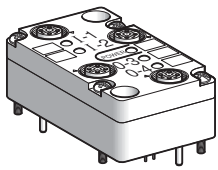




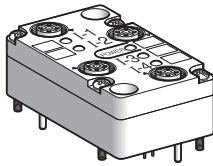
Connector Cables

AS-i Bus

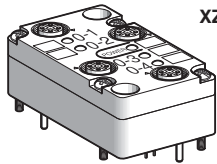
Intelligent Splitter Modules



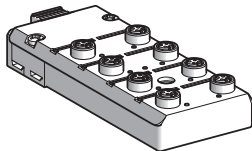
XZSDA22D32



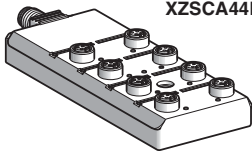
XZSDA40D3



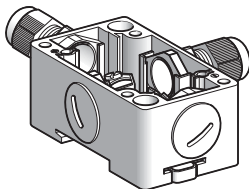
XZSDA04D32



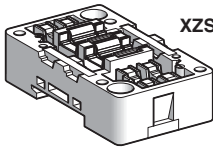
XZSCA44D21



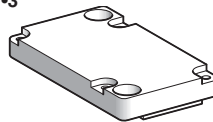
XZSCA44D22



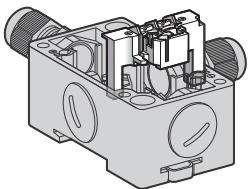
XZSDE2213



XZSDE11*3



XZSDP



XZSG10



XZLG102

4-Port Intelligent Splitter Modules for Connections to Actuators ■ or Sensors ▲

Description	Sensor Supply	Separate Supply to the Actuators	Catalog Number
Splitter module 2 inputs/ 2 solid-state outputs	Via XZSDE**** connection base, from the AS-i bus	Via XZSDE**** connection base	XZSDA22D32
Splitter module 4 inputs (200 mA max.)	Via XZSDE**** connection base, from the AS-i bus	–	XZSDA40D3
Splitter module 4 solid-state outputs	–	Via XZSDE**** connection base	XZSDA04D32

8-Port Splitter Modules

Description	Connection	Catalog Number
Splitter boxes 4 inputs/ 4 solid-state outputs	To the AS-i bus and to the separate supply by IDC (Insulation Displacement Connectors) to yellow and black flat cables	XZSCA44D21
	To the AS-i bus and to the separate supply by 5-pin male M12 connector	XZSCA44D22

■ Connection to outputs of low power relays, LEDs, valves, etc.

▲ Connection to inputs of digital contacts (push buttons, limit switches) and to solid-state outputs of 2 or 3-wire type PNP sensors.

Connection Bases

Description	Cable Connection	Type and Number of Cables	Catalog Number
Connection bases for flat cable	By IDC	2 flat cables for AS-i bus (yellow) or 2 flat cables for separate supply (black) $I_e \leq 2 \text{ A}$	XZSDE1113
	By IDC	2 flat cables: - 1 for AS-i bus (yellow) - 1 for separate supply (black) $I_e \leq 2 \text{ A}$	XZSDE1133
Connection base for round cable ●	To screw terminals Maximum clamping capacity: 2 x 16 AWG (2 x 1.5 mm ²)	Unshielded	XZSDE2213
		Shielded	XZSDE2323

Accessories for Connection Bases

Description	Cable Type Suitable for Connection to Equipped Base	Catalog Number
Adaptor for provision of separate supply from the XZSDE2*** connection base	4-core cable (2 for the AS-i bus, 2 for the separate supply)	XZSG10
Cover for connection base		XZSDP

Accessory for Splitter Modules

Description	Catalog Number
Blanking plug for M12 connector Degree of protection IP 67	XZLG102

● Two PG 11 cable glands (clamping capacity Ø6 to 10 mm) and 3 blanking plugs included with connection base. For twin-conductor cable for AS-i bus $I_e \leq 4 \text{ A}$.

Specifications

Type	2 inputs/2 outputs	4 inputs/4 outputs	4 inputs/4 outputs
	XZSDA22D32	XZSCA44D21	XZSCA44D22
Environment			
Product certifications	AS-i No. 10201	AS-i No. 26201	AS-i No. 26201

Environment

Ambient Air Temperature		Operation: -13 °F to +158 °F (-25 °C to +70 °C) Storage: -40 °F to +185 °F (-40 °C to +85 °C)		
Degree of Protection		IP 67		
Materials		PA6-GF-FR		
Connection	From the bus	By connection base XZSDE****	By insulation displacement connector	By male, 5-pin, M12 connector
	To the actuators or PNP sensors	By female, 4-pin, M12 connector		

Electrical Specifications

Power Supply	Module	From the AS-i bus	From the AS-i bus (protected against reverse polarity)	
	Sensors	18 to 30 Vdc ■		
	Actuators	From separate 24 Vdc supply, -10% to +15%	From separate 24 Vdc supply, -10% to +15% (with protection against reverse polarity)	
Via connection base		Via AS-i black flat cable	Via connector	
Current Consumption from the Bus		≤ 200 mA	≤ 250 mA (output "On")	
PNP Inputs	Maximum current for the 2 or 4 sensors	90 mA	200 mA	
	Input current - high	≥ 5 mA		
	Input current - low	≤ 1.5 mA		
	Input voltage - high	> 10 Vdc		
	Input voltage - low	< 5 Vdc		
Outputs	Type	Solid state 24 Vdc		
	Watchdog	Default to state O (off) in the event of a communications failure		
	Maximum current	2 A ▲	DC12: 1.4 A; DC13: 2 A	
	Short-circuit protection	Yes	Yes plus protection against inductive over voltages	
Indicators	Green LED	Supply	Supply plus verification of bus operation	
	Yellow LEDs	Inputs/outputs		

Data Exchange Specifications

AS-i Profile		S3.0		S7.0			
Bit value		= 0	= 1	= 0	= 1	= 0	= 1
Data Bits Status (I) and Commands (O)	D0	(I): Sensor 1 signal		(I): Sensor 1 signal		(I): Sensor 1 signal	
		Absent	Present	Absent	Present	Absent	Present
		(O): Output 1		(O): Output 1		(O): Output 1	
		Off	On	Off	On	Off	On
	D1	(I): Sensor 2 signal		(I): Sensor 2 signal		(I): Sensor 2 signal	
		Absent	Present	Absent	Present	Absent	Present
		(O): Output 2		(O): Output 2		(O): Output 2	
		Off	On	Off	On	Off	On
	D2	(O): Output 3		(I): Sensor 3 signal		(I): Sensor 3 signal	
		Off	On	Absent	Present	Absent	Present
		(O): Output 3		(O): Output 3		(O): Output 3	
		Off	On	Off	On	Off	On
	D3	(O): Output 4		(I): Sensor 4 signal		(I): Sensor 4 signal	
		Off	On	Absent	Present	Absent	Present
		(O): Output 4		(O): Output 4		(O): Output 4	
		Off	On	Off	On	Off	On
Parameter Bits	P0 to P3	Not used					

■ The power supplied to the module from the AS-i bus is short-circuit protected (maximum current: 100 mA).

▲ Total permissible current for the module: 2 A max.

Specifications Continued

Type	4 inputs	4 outputs
	XZSDA40D3	XZSDA04D32
Environment		
Product Certifications	AS-i No. 03602	AS-i No. 10301
Ambient Air Temperature	Operation: -13 °F to +158 °F (-25 °C to +70 °C) Storage: -40 °F to +185 °F (-40 °C to +85 °C)	
Degree of Protection	IP 67	
Materials	PA6-GF-FR	
Connection	From the bus	By connection base XZSDE****
	To the actuators or PNP sensors	By female, 4-pin, M12 connector

Electrical Specifications

Power Supply	Module	From the AS-i bus	
	Sensors	18 to 30 Vdc ■	-
	Actuators	-	From separate 24 Vdc supply, -10% to +15%
Current Consumption from the Bus		≤ 300 mA	≤ 50 mA
			Via connection base
PNP Inputs	Maximum current for the 2 or 4 sensors	200 mA	-
	Input current - high	≥ 5 mA	-
	Input current - low	≤ 1.5 mA	-
	Input voltage - high	> 10 Vdc	-
	Input voltage - low	< 5 Vdc	-
Outputs	Type	-	Solid state 24 Vdc
	Watchdog	-	Default to state O (off) in the event of a communications failure
	Maximum current	-	2 A ▲
	Short-circuit protection	-	Yes
Indicators	Green LED	Supply	
	Yellow LEDs	Inputs/outputs	

Data Exchange Specifications

AS-i Profile	S0.0				
Data Bits Status (I) and Commands (O)	Bit value	= 0	= 1	= 0	= 1
	D0	(I): Sensor 1 signal		(O): Output 1	
		Absent	Present	Off	On
	D1	(I): Sensor 2signal		(O): Output 2	
		Absent	Present	Off	On
	D2	(I): Sensor 3 signal		(O): Output 3	
		Absent	Present	Off	On
D3	(I): Sensor 4 signal		(O): Output 4		
	Absent	Present	Off	On	
Parameter Bits	P0 to P3	Not used			

■ The power supplied to the module from the AS-i bus is short-circuit protected (maximum current: 100 mA).

▲ Total permissible current for the module: 2 A max.

Connector Cables

AS-i Bus

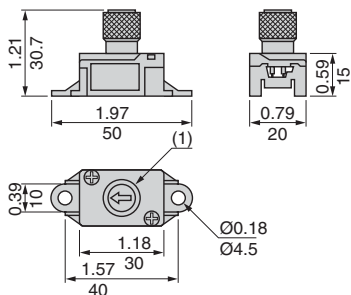
Intelligent Splitter Modules



Dimensions

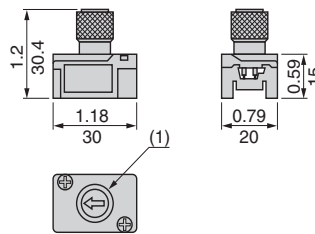
T-connectors

XZCG0120



(1) Connector adjustable to 2 positions through 90°

XZCG0220

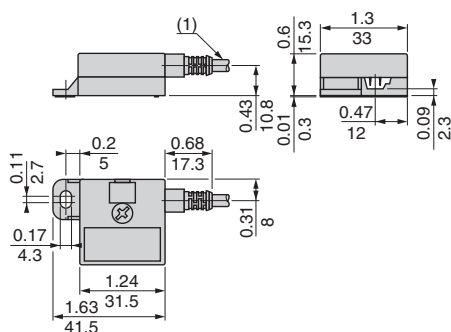


(1) Connector adjustable to 2 positions through 90°

Dual Dimensions $\frac{\text{inches}}{\text{mm}}$

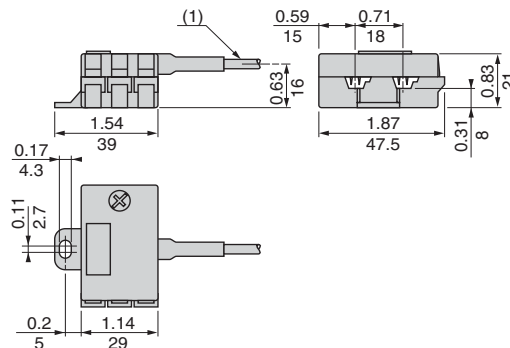
Tap-Offs

XZCG012**



(1) Cable length 1.97 ft (0.6 m), 3.28 ft (1 m), or 6.56 ft (2 m). Either with stripped ends for terminals (brown: AS-i (+), blue: AS-i (-)) or fitted with M12 connector.

XZCG014**



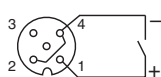
(1) Cable length 0.98 ft (0.3 m) or 6.56 ft (2 m). Either with stripped ends for terminals (brown: AS-i (+), blue: AS-i (-), white: 0 V, black: + 24 V) or fitted with M12 connector

Connections

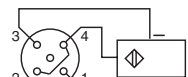
M12 connectors on intelligent splitter modules

Inputs XZSDA40D*, XZSDA22D**

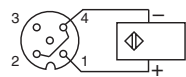
Digital contact



3-wire sensor



2-wire sensor



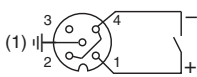
Outputs XZSDA04D**



M12 connectors on splitter boxes XZSCA44D2

Inputs

Digital contact

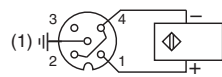


(1) Ground connected to splitter box assembly screws.

3-wire sensor



2-wire sensor

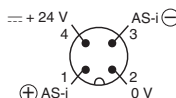


Outputs

XZSCA44D22



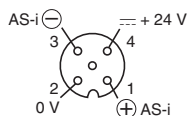
Connection to bus and separate supply



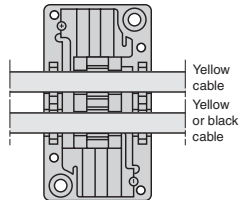
M12 connectors on T connectors XZCG0*20 passive splitter modules XZSDP40D1 and tap-offs XZCG012**



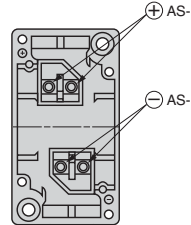
M12 connectors on tap-offs XZCG014**



Connection bases XZSDE11*3



XZSDE2**



Abrasion Resistance

The ability of a material or product to resist wear when rubbed across a rough surface.

American Wire Gage (AWG)

The U.S. standard system to specify size of electrical wiring.

Appliance Wiring Material (AWM)

UL designation for cable intended for use in the appliance wiring industry.

Braid

A metal mesh or screen, usually copper, used in a cable to shield against electrical interference or to reinforce the jacket against damage.

Cable

Either a stranded conductor with or without insulation and other coverings (single conductor cable), or a combination of conductors insulated from one another (multiple conductor cable).

Color Code

A color system for wire or circuit identification by use of solid colors, tracers, braids, surface printing etc.

Conductor

A material capable of passing electrical current.

Connector

Used generally to describe all devices used to provide rapid connect and disconnect service for an electrical circuit.

Connector Insert

Insulating device that holds the contacts in their proper location.

Contact

The conducting members of a connecting device that are designed to provide a separable connection.

Control Cable

A term sometimes used to describe the cable that runs between the PLC and a distribution box.

Cord

A small and flexible insulated cable constructed to withstand mechanical abuse.

Crimp Termination

Connection in which a metal sleeve is secured to a conductor by mechanically crimping the sleeve with hard crimping tool, presses or automated crimping equipment.

CSA International (CSA)

Canadian Standard Association

Canada electrical standard publishing organization and certification agency.

Current Carrying Capacity

The maximum current an insulated conductor can safely carry without exceeding the insulation or jacket temperature limitations.

Cut-Through Resistance

Ability of a material or product to withstand slices by a sharp object without being cut.

Dielectric Strength

The voltage which an insulator can withstand before breakdown occurs.

Fillers

A material used in multi-conductor cables to occupy large interstices formed by the assembled conductors.

FM

Factory Mutual Research.

IEC

International Electro technical Commission.

Insertion Force

The force required to insert a contact into the mating contact.

Insulation

A material that offers high electrical resistance.

Insulation Resistance

The resistance measured in Ohms at a designated voltage between two or more conductors separated by the insulation whose resistance is being measured.

Irradiation

The exposure of the material to high energy emissions. In thermoplastic insulation for the purpose of cross linking the molecules to form a thermoset material.

Jacket

A rubber or synthetic covering applied over the primary insulation, braids, shields, cable components, or the cable itself.

LED

Light Emitting Diode.

Molded Plug

A connector that is molded on the end of a cable.

NEMA

National Electrical Manufacturers Association.

NPN

A type of transistor which requires a positive power supply.

Nylon

The generic name for synthetic fiber-forming polyamides.

Plug

The connector associated with being attached to a cable.

PNP Output

A type of transistor which requires a negative power supply.

Polarization

The feature of a connector that prevents mismatching by allowing plugging to occur only when the connectors are properly orientated.

Polyurethane (PUR)

A thermoplastic material with good natural chemical resistance.

Polyvinyl Chloride (PVC)

A thermoplastic material with good specific properties when blended with additives,

Receptacle

The connector which is usually mounted in a fixed location and mates with a plug type connector.

Resistance (Electrical)

Property of a conductor that determines the current produced by a given electrical difference of potential (Voltage). Units of measurement are in Ohms.

SAE

Society of Automotive Engineers

Separator

Pertaining to the wire and cable, a layer of textile, paper, etc. which is placed between the outer jacket and core construction to enhance jacket stripability.

Shield

A conductive envelope around the primary conductors that provides an electronic barrier to electro-magnetic interference.

SJOO

A UL designation for a rubber jacketed service cord with oil resistant conductors and jacket. Voltage rating is 300V.

SOO

A UL designation for a rubber insulated hard service cord with oil resistant primaries and jacket. Voltage rating is 600V.

SOOW-A

Same as SOO with an outdoor weather rating.

STO

A UL designation for a thermoplastic (usually PVC) insulated hard service cord with oil resistant outer jacket. Voltage rating is 600V.

STOW-A

Same as STO with an outdoor weather rating.

Thermoplastic

A classification of plastics that can be readily softened and resoftened by repeated heating.

Thermoset

A classification of plastics which cures by chemical reaction when heated and when cured, cannot be resoftened by heating.

UL

Underwriters Laboratories Inc., USA electrical standard publishing organization and certification agency.

VDE

Verband Deutscher Elektrotechniker, German approval agency equivalent to U.L.

Voltage Rating

The highest voltage that may be continuously applied to a wire, cable or connector in conformance with a standard or specification.

Wicking

Capillary absorption of a liquid along the fibers of the base material.

Withdrawal Force

The force required to separate two mated contacts or group of contacts.

STOW-A★ PVC 16 AWG

105°C, 600 Volt rated. Used in general applications where environment is less severe. Good resistance to most chemicals and oils. Available in U.S. Industry standard color code and automotive color code. Widely accepted industry standard cable.

SOOW-A★ NBR/PVC 16 & 18 AWG

105° C, 600 Volt rated. Used in general machine tool applications. Primarily for use in welding applications, or where hot metal chips are present. Good resistance to most chemicals and oils. Available in U. S. industry standard color-code.

UL AWM 2661★ PVC 18 & 22 AWG

105° C, 300 Volt rated. Originally designed for automotive industry. Used in general industrial applications. Ideal for use when constant movement or flexible cable runs are required. Good resistance to most chemicals and oils. Available in automotive color code and European color-code.

UL AWN 20233★ PUR 18 & 22 AWG

105° C, 300 Volt rated. Used in general industrial applications, and primarily for use in machining or grinding areas. Excellent resistance to most lubricating and cuffing oils. High degree of flexibility makes cable excellent for use in rapid-constant motion applications. Available in automotive color code and European color-code.

Irradiated PVC .34 MM² (- 22 AWG)

90° C, 300 Volt rated. Ideal for use in welding applications. Cable is resistant to melting for short term high heat areas such as weld flash or contact with hot objects (i.e. soldering iron). Excellent resistance to most chemicals and oils. Available in European color code and automotive color-code. Used in smaller quantities, specifically for welding environments.

Irradiated PUR .34 MM² (- 22 AWG)

90° C, 300 Volt rated. Provides the excellent oil and chemical resistance as standard PUR, and is also designed for long term high flex applications, Cable is also resistant to weld flash and hot objects. Available in European color-code. Designed primarily for special flexing applications.

SJOOW-A★ NBR/PVC 18 AWG

105° C 300 Volt rated. Same as our SOOW-A cable except rated at 300 Volts. Available in European (leech) color code.

UL AWM 2661★ PVC Shielded 22 AWG

90° C 300 Volt rated. Used in general industrial applications where electrostatic interference is a problem. Aluminized mylar shield with drain wire. Available in European (IEC) color-code.

★ UL Designations

Comparison of Metric and AWG wire sizes

AWG Size	Cond. Dia., mm	Cond. Area mm ²	Cond. Dia., IN	Resistance at 20° C		AWG Size	Cond. Dia., mm	Cond. Area mm ²	Cond. Dia., IN	Resistance at 20° C	
				Ohm per ft	Ohm per meter					Ohm per ft	Ohm per meter
29			.01126	.08180	.2684	13	1.900	2.8353	.07480	.001863	.006081
28	.316	.0779	.01240	.06743	.2212	12	2.000	3.1416	.07874	.001673	.005488
			.01264	.06491	.2130				.08081	.001588	.005210
27	.355	.0990	.01398	.05309	.1742	11	2.120	3.5299	.08346	.001489	.004884
			.01420	.05143	.1687			2.340	3.9408	.08819	.001333
26	.400	.01257	.01575	.04182	.1372	10			.09074	.001260	.004132
			.01594	.04082	.1339			2.360	4.3744	.09291	.001201
25	.450	.1590	.01772	.03304	.1084	9	2.500	4.9087	.09843	.001071	.003512
			.01790	.03237	.1062					.1019	.0009988
24	.500	.1963	.01969	.02676	.08781	8	2.650	5.5155	.1043	.0009528	.003125
			.02010	.02567	.08781			2.800	5.1575	.1102	.0008534
23	.560	.2463	.02205	.02134	.07000	7			.1144	.0007924	.002500
			.02257	.02036	.06679			3.000	7.0686	.1181	.0007343
22	.630	.3117	.02480	.01686	.05531	6	3.150	7.7931	.1240	.0006743	.002212
			.02535	.01614	.05531					.1285	.0006281
21	.710	.3969	.02795	.01280	.04201	5	3.350	8.8141	.1319	.0005662	.001956
			.02846	.01280	.04201			3.550	9.8980	.1398	.0005309
20	.750	.4418	.02953	.01190	.03903	4			.1443	.0004981	.001634
	.800	.5027	.03150	.01045	.03430			3.750	11.0447	.1476	.0004758
19			.03196	.01015	.03331	3	4.000	12.5664	.1575	.0004182	.001372
	.850	.5675	.03346	.009261	.05038					.1620	.0003952
18	.900	.6362	.03543	.008260	.02642	2	4.250	14.1863	.1673	.0003704	.001215
			.03589	.008051	.02642			4.500	15.9043	.1772	.0003304
17	.950	.7088	.03740	.007414	.02432	1			.1819	.0003134	.001028
	1.000	.7854	.03937	.006991	.02195			4.750	17.7205	.1870	.0002966
16			.04030	.006386	.02096	0	5.000	19.6350	.1968	.0002676	.0008781
	1.060	.8825	.04173	.005955	.01954					.2043	.0002485
15	1.120	.9862	.04409	.005334	.01750	-1	5.600	24.6301	.2205	.0002134	.0007000
			.04526	.005063	.01661					.2294	.0001971
14	1.180	1.0936	.04646	.004805	.01577	-2	6.300	31.1725	.2480	.0001686	.0005531
	1.250	1.2272	.04921	.004282	.01405					.2576	.0001563
13			.05082	.004016	.01317	-3	7.100	39.5919	.2795	.0001327	.0004355
	1.320	1.3685	.05197	.003840	.01260					.2893	.0001239
12	1.400	1.5394	.05512	.004016	.01317	-4	8.000	50.2655	.3150	.0001045	.0003430
			.05707	.003414	.01045					.3249	.00009285
11	1.500	1.7671	.05906	.002974	.009756	-5	9.000	63.6173	.3543	.00008260	.0002710
	1.600	2.0106	.06299	.002526	.008286					.3648	.00007793
10			.06408	.002315	.007596	-6	10.000	78.5398	.3937	.00006691	.0002196
	1.700	2.2698	.06693	.002315	.007596					.4096	.00006182
9	1.800	2.5447	.07087	.002065	.006775	-7			.4600	.00004901	.0001608
			.07196	.002003	.006571			11.800	109.3588	.4646	.00004805



**MANUFACTURER'S
DECLARATION OF CONFORMITY**

INDUSTRIAL CONTROL BUSINESS UNIT
Machine Equipment Activity Management

WE : SCHNEIDER ELECTRIC INDUSTRIES SA
89,Boulevard Franklin Roosevelt
92500 Rueil Malmaison
FRANCE

declare under our own responsibility that the product(s):

TRADEMARK : TELEMECANIQUE

NAME, TYPE : *Proximity sensors*
MODELS : XS1, XS2, XS3, XS4, XS5, XS6, XS7, XS8, XS9
XSA, XSB, XSC, XSD, XSE, XT1, XT4, XT7

NAME, TYPE : *Photoelectric sensors*
MODELS : XUA, XUB, XUC, XUD, XUE, XUJ,
XUK, XUL, XUM, XUP, XUR, XUV, XUX
XU1, XU2, XU5, XU8, XU9

to which this declaration refers conform to :

STANDARDS OR NORMATIVE DOCUMENTS :
Low-voltage switchgear and controlgear,
General rules IEC 947-1 (EN60947-1)
Proximity sensors IEC 947-5-2 (EN60947-5-2)

Subject to installation, maintenance and use conforming to its (their) intended purpose, to the applicable regulations and standards, to the supplier's instructions and to standard practice,

the products conform to the requirements of the applicable European Directives :

Low-voltage Directive N° 73/23/CEE
EMC Directive N° 89/336/CEE

The CE marking on the products and/or their packaging signifies that Schneider Electric holds the reference technical file available to the European Union authorities.

Issued at Angoulême : February 10 , 2000

Authorised Signatory

Name :
Title :
Signature :

Jean-Marc Chatelard
Activity Director



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