Table 1 - 1715 Adapter and Module I/O Base Units

Attribute	1715-A2A	1715-A3IO
Modules supported	Required for 2 x 1715-AENTR modules Supports: • 1 I/O bus • 8 I/O base units (1715-A3IO) • 24 I/O modules	As many as 3 I/O modules
Weight, approx	283 g (9.98 oz)	220 g (7.76 oz)
Dimensions (H x W x D), approx	224 x 84 x 30 mm (8.82 x 3.31 x 1.18 in.)	233 x 126 x 18 mm (6.5 x 1.625 x 4.25 in.)

Table 2 - 1715 Termination Assemblies

Attribute	1715-TASIB16D, 1715-TADIB16D	1715-TASOB8DE, 1715-TADOB8DE	1715-TASIF16, 1715-TADIF16	1715-TASOF8, 1715-TADOF8
Modules supported	1715-IB16D	1715-OB8DE	1715-IF16	1715-OF8
Weight, approx	133g (4.69 oz), 260 g (9.17 oz)	133 g (4.69 oz), 260 g (9.17 oz)	133 g (4.69 oz), 260 g (9.17 oz)	133 g (4.69 oz), 260 g (9.17 oz)
Fuses	50 mA for each channel	5 A for each supply	50 mA per channel	None
Screw torque	0.5 N•m (0.37 lb•ft)			
Screwdriver width	Flathead 0.4 x 2.0 m (0.0156 x 0.0781 in.)			
Dimensions (H x W x D), approx	1715-TASIB16D, 1715-TASOB8DE, 1715-TASIF16, 1715-TASOF8: 132 x 42 mm (5.25 x 1.65 in.) 1715-TADIB16D, 1715-TADOB8DE, 1715-TADIF16, 1715-TADOF8: 132 x 84 mm (5.25 x 3.375 in.)			

Conformal Coating Standards

The 1715 modules are conformally coated and meet the following standards:

- ANSI/ISA-S71.04-2013; Class G1, G2, and G3 environments
- CEI IEC 60654-4:1987; Class 1, 2, and 3 Environments
- UL746E
- MIL-1-46058C to ASTM-G21 (Tropicalization and fungicide)

1715-IF16 Analog Input Module, 1715-A3IO Module Base, and Termination Assemblies

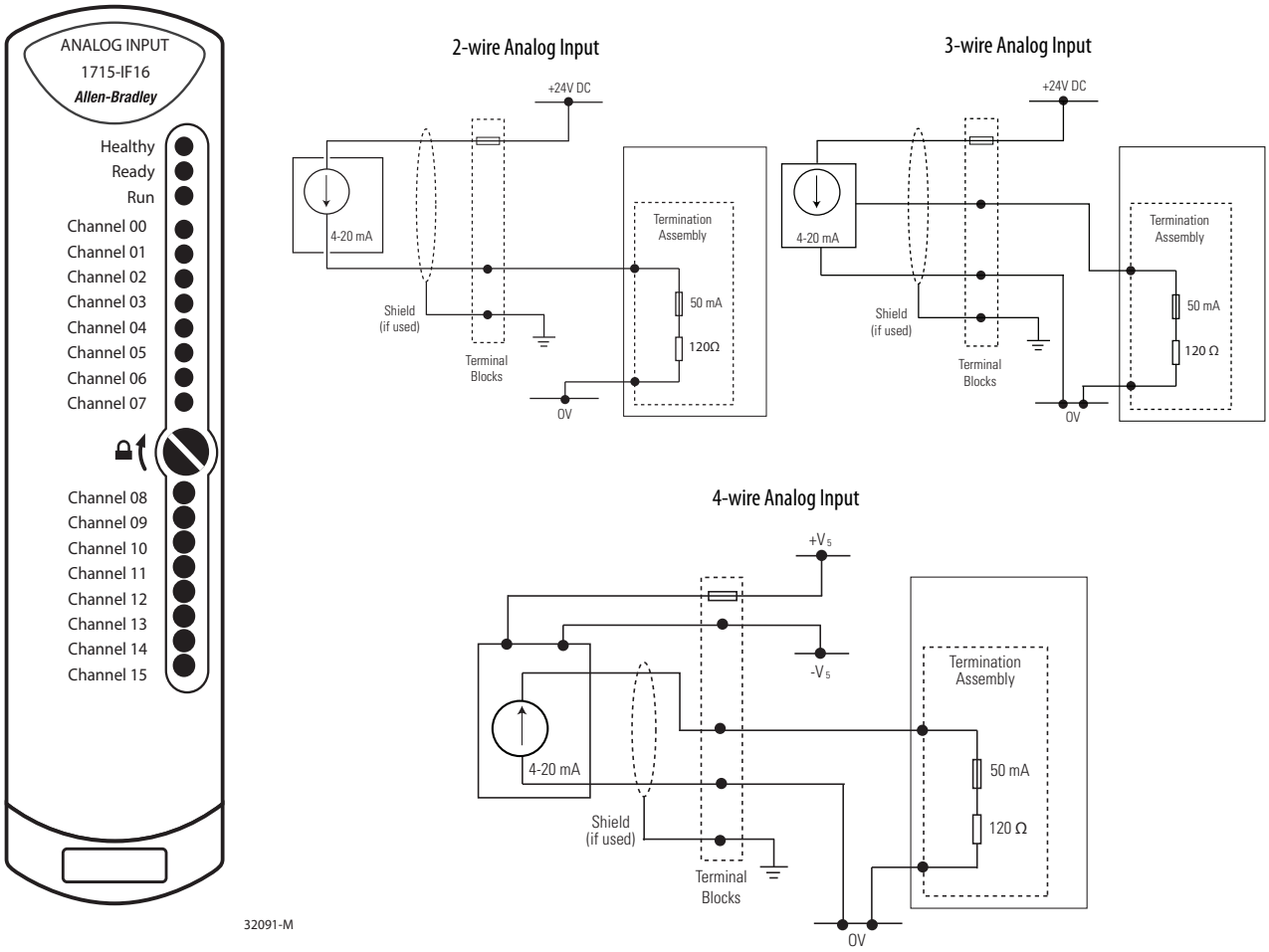

Table 12 - Technical Specifications - 1715-IF16 Analog Input Module, 1715-A3IO Module Base, and 1715-TASIF16, 1715-TADIF16 Termination Assemblies

Attribute	1715-IF16, 1715-A3IO, 1715-TASIF16, 1715-TADIF16
Operating voltage range, supply power and/or current ratings	1715-IF16 backplane: 260 mA @ 18…32V DC 1715-TASIF16, 1715-TADIF16 I/O: 0…24 mA per channel @ 18…32V DC
Power dissipation	5.28 W, max (module and termination assembly combined)
Isolation voltage	50V (continuous), basic insulation type, I/O ports to backplane No isolation between individual I/O ports if the 1715-TASIF16 termination assembly is fitted 50V isolation between individual ports if 1715-TADIIF16 termination assembly is fitted Type tested at 500V AC for 60 s
Weight, approx	1715-IF16 module: 360 g (12.70 oz) I/O base unit: 133 g (5 oz) Termination assembly: 133 g (5 oz), 260 g (10 oz)
Dimensions (H x W x D), approx	166 x 42 x 118 mm (6.5 x 1.625 x 4.625 in.)
Wire size	1715-TASIF16, 1715-TADIF16 I/O connections: Single 0.33... 1.5 mm^2 (22...16 AWG) solid or stranded shielded copper wire rated at 85 °C (185 °F), or greater

Table 12 - Technical Specifications - 1715-IF16 Analog Input Module, 1715-A3IO Module Base, and 1715-TASIF16, 1715-TADIF16 Termination Assemblies

Attribute	1715-IF16, 1715-A3IO, 1715-TASIF16, 1715-TADIF16
Wiring category	2 - on shielded signal ports(1)
Fuse, type	1715-TASIF16, 1715-TADIF16 I/O: 50 mA, 125V, Type T
Wire type	Shielded
North American temperature code	T4
IEC temperature code	T4
Enclosure type	None (open-style)

(1) Use this conductor category information for planning conductor routing as described in the system-level installation manual. See the Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1.

Table 13 - Environmental Specifications - 1715-IF16 Analog Input Module, 1715-A3IO Module Base, and 1715-TASIF16, 1715-TADIF16 Termination Assemblies

Attribute	1715-IF16, 1715-A3IO, 1715-TASIF16, 1715-TADIF16
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	-25…70 °C (-13…158 °F)
Temperature, surrounding air, max	70 °C (158 °F)
Temperature, nonoperating IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40…85 °C (-40…185 °F)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Nonoperating Damp Heat)	5…95% noncondensing
Vibration IEC 60068-2-6 (Test Fc, Operating)	2 g @ 10…500 Hz
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	DIN rail mount: 25 g Panel mount: 30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	Installed: 30 g Uninstalled: 50 g (with slot fillers)
Emissions CISPR 11 (IEC 61000-6-4)	Class A
ESD immunity IEC 61000-4-2	6 kV contact discharges 8 kV air discharges
Radiated RF immunity IEC 61000-4-3	20V/m with 1 kHz sine-wave 80% AM from 80... 1000 MHz 10V/m with 1 kHz sine-wave 80% AM from 1000... 2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B immunity IEC 61000-4-4	±2 kV @ 5 kHz on shielded signal ports
Surge transient immunity IEC 61000-4-5	±2 kV line-earth (CM) on shielded signal ports
Conducted RF immunity IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz…80 MHz

Table 14 - Certifications - 1715-IF16 Analog Input Module, 1715-A3IO Module Base, and 1715-TASIF16, 1715-TADIF16 Termination Assemblies

Certification[1]	1715-IF16, 1715-A3IO, 1715-TASIF16, 1715-TADIF16
cULus UL	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E341697. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E251761.
CE	European Union 2004/108/EC EMC Directive, compliant with: • EN 61326-1; Meas./Control/Lab., Industrial Requirements • EN 61000-6-2; Industrial Immunity • EN 61000-6-4; Industrial Emissions • EN 61131-2; Programmable Controllers (Clause 8, Zone A & B)
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: • EN 60079-15; Potentially Explosive Atmospheres, Protection 'n' • EN 60079-0; General Requirements II 3 G Ex nA IIC T4 Gc X
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3
Functional Safety	TÜV Certified for Functional Safety[2]: Capable of SIL 2 according to EN 62061, IEC 61508, and EN 61326-3-1

(1) When marked. See the Product Certification link at http://www.ab.com for Declarations of Conformity, Certificates, and other certification details.

(2) When used with specified firmware revisions.