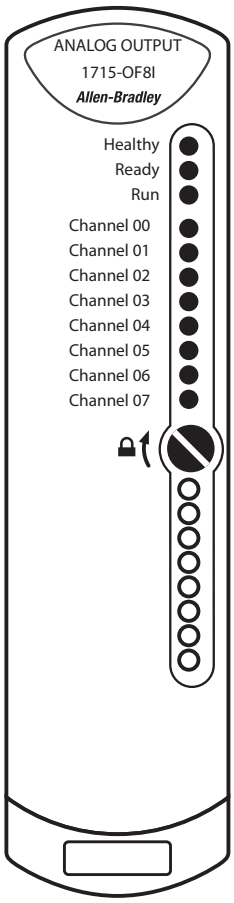
1715-OF8I Analog Output Module, 1715-A3I0 Module Base, and Termination Assemblies



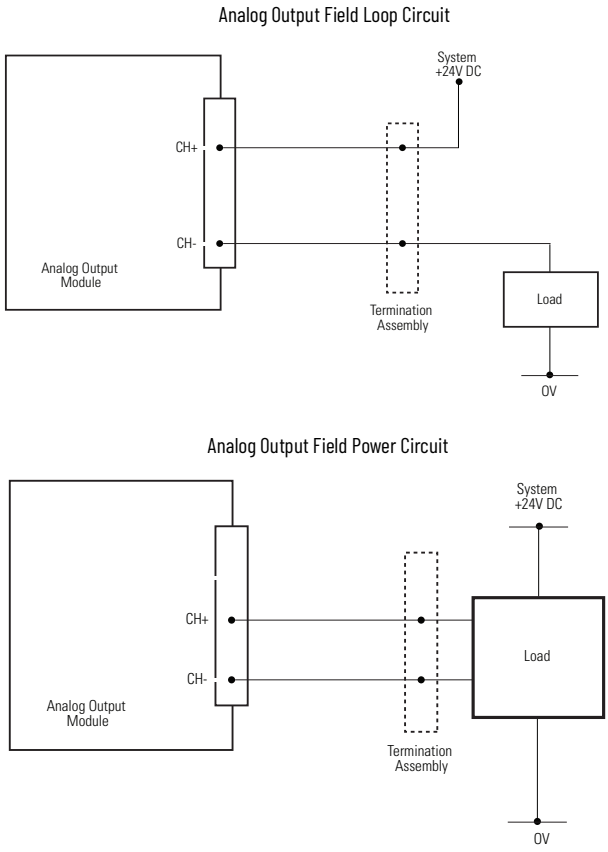


Table 14 - Performance Criteria for 1715-OF8I Analog Output Module

Attribute	Value
Data Input value least significant bit (control)	0.98 µA
Data Output value least significant bit (monitor)	3.9 µA
Channel Measurement Error at 25 °C (77 °F) ± 2 °C (± 3.6 °F) After 1 year at 40 °C (104 °F) After 2 years at 40 °C (104 °F) After 5 years at 40 °C (104 °F)	 0.30% + 10 µA 0.35% + 10 µA 0.44% + 10 µA
Temperature drift	(0.01% + 0.1 µA) per °C

Table 15 - Technical Specifications - 1715-OF8I Analog Output Module, 1715-A3I0 Module Base, and 1715-TASOF8I, 1715-TADOF8I Termination Assemblies

Attribute	1756-OF8I, 1715-A3I0, 1715-TASOF8, 1715-TADOF8
Operating voltage range, supply power and/or current ratings	1715-OF8I backplane: 260 mA @ 18...32V DC 1715-TASOF8, 1715-TADOF8 I/O: 0...24 mA per channel @ 18...32V DC
Compliance voltage slew rate, max	No limit identified within compliance voltage range
Power dissipation	System: 3.6 W max Field Loop: 0.64 W per field loop
Isolation voltage	50V (continuous), basic insulation type, I/O ports to backplane 50V isolation between individual I/O ports Type tested at 500V AC for 60 s
Weight, approx	1715-OF8I module: 340 g (11.99 oz) I/O base unit: 133 g (5 oz) Termination assembly: 133 g (5 oz), 260 g (10 oz)

Table 15 - Technical Specifications - 1715-OF8I Analog Output Module, 1715-A3I0 Module Base, and 1715-TASOF8I, 1715-TADOF8I Termination Assemblies

Attribute	1756-OF8I, 1715-A3I0, 1715-TASOF8, 1715-TADOF8
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-TASOF8I, 1715-TADOF8I 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
Wiring category	2 - on shielded signal ports(1)
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 16 - Environmental Specifications -1715-OF8I Analog Output Module, 1715-A3I0 Module Base, and 1715-TASOF8, 1715-TADOF8 Termination Assemblies

Attribute	1756-OF8I, 1715-A3I0, 1715-TASOF8, 1715-TADOF8
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…60 °C (-13…140 °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)	10…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