



Installation Instructions

ControlLogix™ Drive Module

(Catalog Numbers: 1756-DMD30 and 1756-DMF30)

The Drive Module mounts in a ControlLogix™ chassis. The ControlLogix system must be mounted within a suitable enclosure to prevent personal injury resulting from accessibility to live parts. The interior of this enclosure must be accessible only by the use of a tool.

This industrial control equipment is intended to operate in a Pollution Degree 2 environment, in overvoltage Category II applications, as defined in IEC publication 664A, at altitudes up to 2000 meters without derating.

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Low Voltage Directive

This product is tested to meet Council Directive 73/23/EEC Low Voltage, by applying the safety requirements of EN 61131-2 Programmable Controllers, Part 2 – Equipment Requirements and Tests.

For specific information required by EN 61131-2, see the appropriate sections in this publication, as well as the following Allen-Bradley publications:

- Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1
- Automation Systems Catalog, publication B111

Open style devices must be provided with environmental and safety protection by proper mounting in enclosures designed for specific application conditions. See NEMA Standards publication 250 and IEC publication 529, as applicable, for explanations of the degrees of protection provided by different types of enclosures.

Power Requirements

This module receives power from the 1756 chassis power supply and requires 2 sources of power from the backplane:

- 1.35A at 5.1V DC
- 3.0 mA at 24V DC

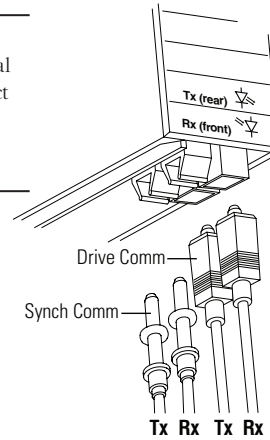
Add this current/power value (6.96 W) to the requirements of all other modules in the chassis to prevent overloading the power supply.

Connect the Fiber Optic Cables

Connect the fiber optic cables as shown.



ATTENTION: Hazard of permanent eye damage exists when using optical transmission equipment. This product emits intense light and invisible radiation. Do not look into module ports or fiber optic cable connectors.








Pre-Configured Drive Comm Cables

Catalog Number	Length
1756-DMCF001	1 meter
1756-DMCF003	3 meters
1756-DMCF010	10 meters
1756-DMCF030	30 meters
1756-DMAF (UDC/PMI existing cable adapters)	N/A

Pre-Configured SynchLink Comm Cables

Catalog Number	Length
1403-CF001	1 meter
1403-CF003	3 meters
1403-CF005	5 meters
1403-CF010	10 meters
1403-CF020	20 meters
1403-CF050	50 meters
1403-CF100	100 meters
1403-CF250	250 meters

1756-DM Specifications

Consideration	Description
Module Location	1756 ControlLogix Chassis
Backplane Current	1.35A at 5.1V DC and 3.0mA at 24V DC
Maximum Power Dissipation	6.96 W
Thermal Dissipation	23.7 BTU/hr
Indicators	Green and red indicators for operation, status, and diagnostics.
Environmental Conditions	
Operating Temperature	0° to 60°C (32° to 140°F)
Storage Temperature	-40° to 85°C (-40° to 185°F)
Relative Humidity	5 to 95% non condensing
Shock	
Operating	30g peak acceleration, 11 (±1 ms) pulse width
Non-operating	50g peak acceleration, 11 (±1 ms) pulse width
Vibration	Tested 2g at 10-500Hz per IEC 68-2-6
Agency Certification (When product is marked.)	 Listed Industrial Control Equipment  Certified Process Control Equipment Certified Class I, Division 2, Group A, B, C, D  Approved Class I, Division 2, Group A, B, C, D  Marked for all applicable directives  Marked for all applicable acts

Consideration	SynchLink	Drive Communication
Connecting Cables ⁽¹⁾	200/230 micron HCS (Hard Clad Silica) Versalink V-System Lucent Technologies, Specialty Fibers Technology Division	62.5/125 micron glass One pair SC Style, one pair ST Style Breakout Cables: Belden 225362 or Mohawk M92021
Maximum Cable Length	300 meters with no more than one splice or one adapter	300 meters with no more than one splice or one adapter
Minimum Cable Length	1 meter	1 meter
Operating Wavelength	650 nm (Red)	820 nm (InfraRed)
Data Rate	5 Mbps	10 Mbps
Maximum Node Count	10 - Daisy Chain, 256 - Star Configuration	1 - PMI Chassis

(1) See [page 8](#) for Allen-Bradley catalog numbers.