



SmartBlock Relay

High Current Relay Output Modules

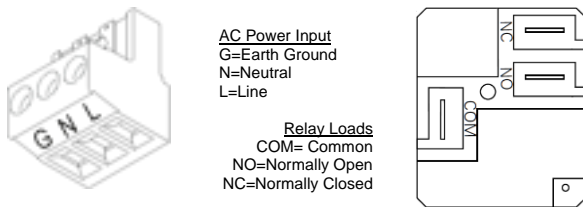
HE569DQM209 (8pt)

Isolated Form C Relays, 20A/pt

1 Specifications

Specifications	
Outputs	DQM209
Outputs (Commons)	8 (8)
Contact Ratings	
Voltage	Load Type
277VAC	Tungsten*
277VAC	Ballast
240VAC	Motor
240VAC	Resistive*
240VAC	General Purpose
240VAC	LRA/FLA
240VAC	Pilot Duty
125VAC	Motor
120VAC	LRA/FLA
120VAC	Tungsten*
120VAC	Pilot Duty
28VDC	Resistive*
*6,000 operations	
Minimum Output	1A @ 5VDC or 1A @ 12VAC
Response Time	15mS OFF>ON, 15mS ON>OFF
Life	10 million cycles mechanical 100,000 cycles minimum at rated load
General	DQM209
LED indication	ON indication per Relay Output
DC (CsCAN) Input Power	<50mA @ 10-30Vdc
AC Input Power	0.26A @ 100-240Vac
Load Terminal Type	1/2" Spade Male
Load Terminals / Relay	Common, Normally Open, Normally Closed
Storage Temp.	-40° to 80° Celsius
Operating Temp.	-20° to 70° Celsius
Relative Humidity	5 to 95% Non-condensing
Dimensions HxWxD	5" x 8.5" x 2.5" (127x216x63mm)
Weight	567g (1lb. 4oz.)
Certifications	North America or European website

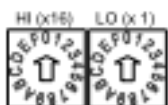
2 Wiring – AC Input Power & Relay Loads



2.1 CsCAN Network Wiring

Color	Signal	Description
■ Red	V+	DC Power In
□ White	CAN_H	CAN Data High
□	SHIELD	Shield Ground
■ Blue	CAN_L	CAN Data Low
■ Black	V-	CAN Ground

2.2 CsCAN Network ID



The CsCAN Network ID is set using two 16-position rotary switches labeled HI and LO. Addresses 01-FD hex (1-253 decimal) are legal in CsCAN. To convert the readings in hex on the rotary switches to the equivalent decimal value, use the following equation:

$$ID \text{ (decimal)} = HI \times 16 + LO$$

3.0 Software Configuration

The DQM209 is configured in Cscape as a 16pt SmartStix Output module. Sixteen bits of output reference data (e.g. %Q) are assigned to the unit. The first eight bits control the relay outputs, and the last eight bits are unused.

3.1 LED Status Indication

Each relay output has an ON status LED physically located next to the relay on the DQM209. There is also a PWR LED (lit when DC power is applied), and CsCAN status LEDs labeled MS (module status) and NS (network status). Those LEDs are described below.

Diagnostic LED	State	Meaning
MS: (indicates fault status of Module)	Solid Red	RAM or ROM test failed
	Blinking Red	I/O test failed
	Blinking Green	Module is in power-up state
	Solid Green	Module is running normally
NS: (indicates fault status of Network)	Solid Red	Network Ack or Dup ID test failed
	Blinking Red	Network ID test failed
	Blinking Green	Module is in Life Expectancy default state
	Solid Green	Network is running normally

4 Installation / safety

Warning: Remove DC and AC power from the relay module and any peripheral equipment connected to this local system before adding or replacing this or any module.

- a. All applicable codes and standards should be followed in the installation of this product.

When found on the product, the following symbols specify:



5 Technical Support

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