

SmartBlock Relay & SSR

High Current Socketed Output Modules

HE569DQM212 (7A Form C), HE569DQM204 (1A AC SSR), HE569DQM205 (2A DC SSR)

I Specifications

		Specifications	S				
Gene	ral	All Versions					
Outputs (Commons)		8 (8)					
LED indication		ON indication per Relay Output					
DC Input Power		<200mA @ 24Vdc (17-30Vdc)					
Load Terminal Type		Removable Spring-Clamp (2 x 12posn)					
Storage Temp.		-40° to +80° Celsius					
Operating	Operating Temp.		0° to +6	0° Celsi	us		
Relative H	Relative Humidity		95% Nor	n-conde	nsing		
Dimensions HxWxD		5" x 4.31"	' x 2.5" (127x11	0x63mm)		
Weig	Weight		340g (12oz.)			
Certifica	Certifications		erica or	<u>Europea</u>	an website		
Contact R	latings		DQN	1212			
	Contact Configuration		Normally Open & Normally Closed				
	AC Voltage, max.		400Vac				
AC curren	AC current, max.		7A* per Load, 50A max/board				
DC Voltage, max		220Vdc 7A* @ 220mA @ 80mA@					
DC currer	DC current, max		220m		80mA@		
					220Vdc		
		ambient rise, derate max. current by 12.5%					
Minimum Output		5V @ 5mA					
Response Time		8mS OFF>ON, 6mS ON>OFF					
Life.		30 million cycles mechanical					
=::0				imum at rated load			
Contact Ratings		DQM204		DQM205			
Contact Configuration		Normally Open					
Voltage, max.		275Vac		35Vdc			
Rated Current		1A @ 240Vac		2A @ 24Vdc			
	Minimum Output		12Vac @ 50mA		1.5Vdc @ 1mA		
	Off-state leakage current		1mA		0.01mA		
On-state vol		1.1Vac		0.3Vdc			
Response Time	OFF>ON	10mS			0.05mS		
rime	UN>UFF	10mS 0.25mS					

2 Output Wiring

			Tan C		atas T	ermin	al Missa	alaau (-64.4-	ا≱ماندان		
Model		_					ai Nun					
	1	2	3	4	5	6	7	8	9	10	11	12
DQM212	1C	N	NC	2C	NO	NC	3C	N	NC	4C	NO	NC
DQM204	1C	NO		2C	NO		3C	NO		4C	NO	
DQM205	1C	NO		2C	NO		3C	NO		4C	NO	
	Bottom Connector Terminal Number (left to right)											
Model		1	ottom	Conr	nector	Termi	nai Ni	umber	' (left t	o righ	t)	
Model	1	2	3	Conr 4	ector 5	1 ermi	nai Ni 7	umber 8	(left t	o righ 10	t) 11	12
Model DQM212	1 5C						7 7 7C					12 NC
	1 5C 5C	2	3	4	5	6	7	8	9	10	11	-
DQM212		2 NO	3	4 6C	5 NO	6	7 7C	8 NO	9	10 8C	11 NO	

2.1 CsCAN Network Wiring

C	olor	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 (decimal) = HI x 16 + LO

3.0 Software Configuration

The DQM modules are 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 output has an ON status LED physically located next to the relay on the DQM module. 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.

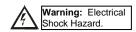
Diagnostic LED	State	Meaning		
	Solid Red	RAM or ROM test failed		
MS: (Module Status)	Blinking Red	I/O test failed		
Wis. (Widdule Status)	Blinking Green	Module is in power-up state		
	Solid Green	Module is running normally		
	Solid Red	Network Ack or Dup ID test failed		
	Blinking Red	Network ID test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

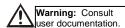
4 Installation / safety

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

North America:

Tel: 317 916-4274 Fax: 317 639-4279

Web: http://www.hornerautomation.com

Email: techsppt@heapg.com

Europe:

Tel: +353-21-4321266 Fax: +353-21-4321826

Web: http://www.hornerautomation.eu
Email: tech.support@horner-apg.com

No part of this publication may be reproduced without the prior agreement and written permission of Horner APG, Inc. Information in this document is subject to change without notice.



8/20/2020 Page 1 of 1