Modicon Quantum automation platform

Catalog

November 2015



Schneider Electric

Modicon Quantum automation platform

Discrete I/O modules

DC inputs

Type	32-channel discrete input modules		
			
Input voltage	5 V ⎓ TTL	24 V ⎓	
Modularity – Number of channels	32		
Modularity – Number of groups	4		
Modularity – Number of channels per common	8		
Isolation	By group		
Logic	Negative *(source)*	Positive *(sink)*	Negative *(source)*
I/O addresses	2 input words		
Protection of inputs	Resistor-limited		
Bus current required	170 mA	330 mA	
Power dissipation	5 W	1.7 + (0.36 x no. of channels at state 1) in W	1.5 + (0.26 x no. of channels at state 1) in W
External power supply (U_s)	4.5...5.5 V ⎓	–	19.2...30 V ⎓
External fuses	Depending on use		
Online modification of configuration *(1)*	Yes		
Functional safety certification	–	Non-interfering	–
Approvals	UL 508, CSA 22.2-142, CE, FM Class 1 Div. 2, ATEX Zone 2/22 *(3)*		
Type of module	**140DDI15310**	**140DDI35300**	**140DDI35310**
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(1) For online modification of configuration, see page 2/37.
(2) For connection, requires the Modicon Telefast ABE 7 pre-wired system:
- Connection sub-bases **ABE7H08●●●/7H16●●●/7S16●●●** *(see page 7/2)*
- Connection cables **TSXCDP053/●03** *(see page 7/17)*

Type	96-channel discrete input module	32-channel discrete input module	16-channel discrete input module	32-channel discrete input module	24-channel discrete input module
					
Input voltage	24 V ⎓		10..0.60 V ⎓		125 V ⎓
Modularity – Number of channels	96	32	16	32	24
Modularity – Number of groups	6	4	8	4	3
Modularity – Number of channels per common	16	8	2	8	
Isolation	Per group				
Logic	Positive *(sink)*				
I/O addresses	6 input words	4 input words	1 input word	2 input words	
Protection of inputs	–				
Bus current required	270 mA	250 mA	200 mA	300 mA	200 mA
Power dissipation	1.35 + (0.13 x no. of channels at state 1) in W	–	1 + (0.62 x no. of channels at state 1) in W		
External power supply (U_s)	19.2...30 V ⎓	20...30 V ⎓ at 20 mA per group	10...60 V ⎓ (group power supply)		
External fuses	–		Depending on use		
Online modification of configuration *(1)*	Yes				
Functional safety certification	–				
Approvals	UL 508, CSA 22.2-142, cUL, FM Class 1 Div. 2, CE, ATEX Zone 2/22 *(3)*				
Type of module	**140DDI36400** *(2)*	**140DSI35300** *(3)*	**140DDI84100**	**140DDI85300**	**140DDI67300**
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(3) Only Conformal Coating versions, depending on model, are ATEX Zone 2/22 certified. For more information, see pages 8/2 to 8/9.