



Main

Range of product	Modicon M340 automation platform
Product or component type	Discrete I/O module
Discrete input number	8
Discrete input voltage	24 V DC positive
Input compatibility	With 2-wire/3-wire proximity sensors IEC 60947-5-2
Discrete output number	8
Discrete output type	Solid state
Discrete output voltage	24 V 19...30 V DC
Ambient air temperature for operation	0...60 °C
Protective treatment	TC

Complementary

Electrical connection	20-way connector
Input type	Current sink (logic positive)
Discrete input current	3,5 mA
Discrete output current	0,5 A
Sensor power supply	19...30 V
Voltage state 1 guaranteed	≥ 11 V
Current state 1 guaranteed	≥ 3 mA
Voltage state 0 guaranteed	≤ 5 V
Current state 0 guaranteed	$\leq 1,5$ mA
Current per channel	$\leq 0,625$ A
Current per module	≤ 5 A
Leakage current	$\leq 0,5$ mA at state 0
[Ures] residual voltage	$\leq 1,2$ V at state 1
Input impedance	6800 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	$\leq 3,7$ W
DC typical filtering time	4 ms
DC maximum filtering time	7 ms
Response time on output	1,2 ms
Paralleling of outputs	Yes : 2 maximum
Typical current consumption	59 mA 24 V DC 79 mA 3.3 V DC
Current consumption	≤ 111 mA 3.3 V DC ≤ 67 mA 24 V DC
MTBF reliability	447581 h
Protection type	1 external fuse per group of input channel 0,5 A fast blow Overvoltage protection on output Reverse polarity protection on input Reverse polarity protection on output
Output overload protection	With current limiter With electronic circuit breaker $1.5 I_n < I_d < 2 I_n$
Output overvoltage protection	With transil diode
Output short-circuit protection	With 2 A external fuse
Reverse polarity protection	Reverse mounted diode

Voltage detection threshold	< 14 V DC sensor fault < 14 V DC preactuator fault > 18 V DC sensor OK > 18 V DC preactuator OK
Tungsten load	≤ 6 W
Switching frequency	0.5/LI ² Hz
Overload time	≤ 15 ms
Load impedance ohmic	≤ 48 Ohm
Status LED	1 LED green module operating (RUN) 1 LED red module error (ERR) 1 LED red module I/O 1 LED per channel green channel diagnostic
Product weight	0,115 kg

Environment

IP degree of protection	IP20
Standards	CSA 22-2 No 142 IEC 1131-2 IEC 664 NF C 63-850 UL 508 UL 746C
Dielectric strength	500 V DC 1 minute, between group of inputs and outputs 1500 V AC 50/60 Hz 1 minute, primary/secondary 1500 V AC 50/60 Hz 1 minute, output/ground 1500 V AC 50/60 Hz 1 minute, output/internal logic
Relative humidity	10...95 % without condensation
RoHS EUR conformity date	0722
RoHS EUR status	Compliant