



Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	8
Discrete input type	Isolated
Input type	Capacitive
Discrete input voltage	200...240 V AC
Discrete input current	10.4 mA
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 60947-5-2

Complementary

Network frequency	50/60 Hz
Network frequency limits	47...63 Hz
Sensor power supply	170...264 V
Voltage state 1 guaranteed	≥ 159 V
Current state 1 guaranteed	≥ 6 mA
Voltage state 0 guaranteed	≤ 40 V
Current state 0 guaranteed	≤ 4 mA
Input impedance	21000 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	≤ 4.73 W
AC activation filtering time	10 ms
AC deactivation filtering time	20 ms
Typical current consumption	76 mA at 3.3 V DC 93.6 mA at 24 V DC
Current consumption	≤ 126 mA at 3.3 V DC ≤ 154.8 mA at 24 V DC
Protection type	1 external fuse per group of channel 0.5 A fast blow
Voltage detection threshold	< 80 V AC sensor fault

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.

> 164 V AC sensor OK

Status LED	1 LED green for module operating (RUN) 1 LED per channel green for channel diagnostic 1 LED red for module I/O 1 LED red for module error (ERR)
Product weight	0.12 kg

Environment

IP degree of protection	IP20
Directives	2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive 2012/19/EU - WEEE directive
Product certifications	CE RCM Merchant Navy UL CSA EAC
Standards	EN 61010-2-201 EN 61000-6-2 EN 61131-2 EN 61000-6-4
Dielectric strength	1500 V AC at 50/60 Hz 1 min
Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	0...60 °C
Relative humidity	5...95 % without condensation 55 °C
Protective treatment	TC
Operating altitude	0...2000 m 2000...5000 m (with derating factor)

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0901 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Available End of Life Information

Contractual warranty

Warranty period	18 months
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