



Main

Range of product	Modicon X80
Product or component type	Discrete input module
Discrete input number	16
Discrete input type	Isolated
Input type	Capacitive
Discrete input voltage	200...240 V AC
Discrete input current	3 mA

Complementary

Input compatibility	2-wire proximity sensor conforming to IEC 60947-5-2 2-wire proximity sensor conforming to IEC 61131-2 Type 1
Network frequency	50/60 Hz
Network frequency limits	47...63 Hz
Sensor power supply	170...264 V
Current state 1 guaranteed	≥ 3 mA
Current state 0 guaranteed	≤ 2 mA
Input impedance	28000 Ohm
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	5 W
AC activation response time	10 ms
AC deactivation response time	20 ms
Typical current consumption	76 mA at 3.3 V DC
MTBF reliability	3700000 H
Protection type	1 external fuse per group of channel 0.25 A fast blow
Voltage detection threshold	< 80 V AC sensor fault > 170 V AC sensor OK
Status LED	1 LED (green) module operating (RUN) 1 LED per channel (green) channel diagnostic 1 LED (red) module error (ERR) 1 LED (red) module I/O
Net weight	0.157 kg

Environment

IP degree of protection	IP20
Dielectric strength	1780 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	0...95 % at 0...60 °C without condensation
Operating altitude	0...2000 m 2000...5000 m with derating factor

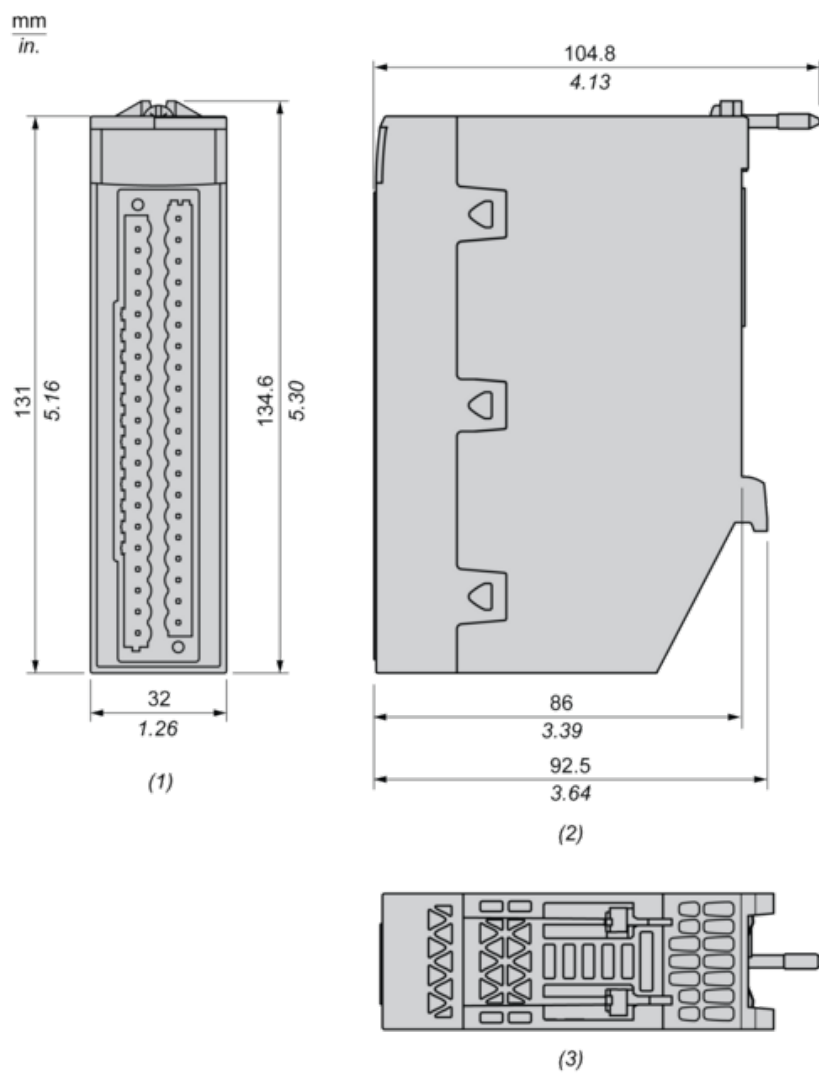
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.700 cm
Package 1 Width	18.000 cm
Package 1 Length	26.000 cm
Package 1 Weight	311.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.980 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

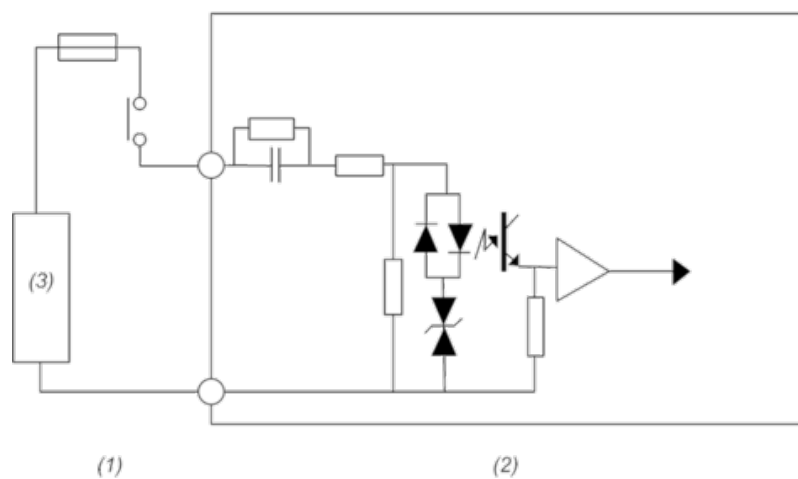
Dimensions



- (1) Front view
- (2) Right view
- (3) Top view

Connecting the Module

Input Circuit Diagram



- (1) Process
- (2) Module
- (3) Power supply

Module Connection

