

## Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	16
Discrete output type	Solid state
Discrete output logic	Negative
Discrete output voltage	24 V 19...30 V DC
Discrete output current	0.5 A

## Complementary

Current per channel	0.625 A
Maximum current per module	10 A
Maximum leakage current	0.5 mA at state 0
Maximum voltage drop	<1.2 V at state 1
Insulation resistance	> 10 MOhm 500 V DC
Power dissipation in W	2.26 W
Response time on output	1.2 ms
Paralleling of outputs	Yes : 3 maximum
Typical current consumption	79 mA at 3.3 V DC
MTBF reliability	490000 H
Protection type	Reverse polarity protection External short-circuit protection Overload protection Overvoltage protection
Output overload protection	With electronic circuit breaker $1.5 I_n < I_d < 2 I_n$ With current limiter
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 preactuator fault > 18 V DC preactuator at state 0
Maximum tungsten load	6 W
Switching frequency	0.5/LI <sup>2</sup> Hz
Load impedance ohmic	>= 48 Ohm
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	0.12 kg

## Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, output/ground 1500 V AC at 50/60 Hz 1 minute, output/internal logic
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 % at 55 °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	5.500 cm
Package 1 Width	11.500 cm
Package 1 Length	11.800 cm
Package 1 Weight	145.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.506 kg

## Offer Sustainability

Packaging without single use plastic	Yes
Packaging made with recycled cardboard	Yes
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
Take-back	No
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	32

## Contractual warranty

Warranty	18 months
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