



### Main

Range of product	Modicon X80
Product or component type	Discrete output module
Discrete output number	16 conforming to EN/IEC 61131-2
Discrete output logic	Positive
Discrete output voltage	24 V 19...30 V DC
Discrete output current	0.5 A
Output compatibility	Not IEC 61131-2 DC input IEC 61131-2 type 3 DC input

### Complementary

Current per channel	0.625 A
Maximum current per module	10 A
Maximum leakage current	0.5 mA at state 0
[Ures] residual voltage	1.2 V at state 1
Insulation resistance	> 10 MOhm 500 V DC
Maximum power dissipation in W	4 W
Response time on output	1.2 ms
Paralleling of outputs	Yes : 2 maximum
Typical current consumption	79 mA at 3.3 V DC
MTBF reliability	392285 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	Module operating (RUN): 1 LED (green) Channel diagnostic: 1 LED per channel (green) Module error (ERR): 1 LED (red) Module I/O: 1 LED (red)
Net weight	0.12 kg

## Environment

IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2012/19/EU - WEEE directive
Product certifications	EAC CE RCM CSA UL Merchant Navy
Standards	EN 61131-2 EN 61000-6-4 EN 61000-6-2 EN 61010-2-201
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
Protective treatment	TC
Operating altitude	0...2000 m 2000...5000 m with derating factor

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>
China RoHS Regulation	 <a href="#">Download RoHS China 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

## Contractual warranty

Warranty	18 months
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