



Main

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| Range of product | Modicon X80 |
| Product or component type | PTO module |
| Number of channels | 2 |
| Number of inputs | 4 |
| Discrete input type | Current sink or source counter in position input conforming to IEC 61131-2 type 3 Current sink or source drive ready, emergency input conforming to IEC 61131-2 type 3 Current sink yes origin input conforming to IEC 61131-2 type 3 Current sink yes proximity input and limit switch input conforming to IEC 61131-2 type 3 |
| Input compatibility | 2-wire/3-wire proximity sensor 19.2...30 V conforming to IEC 947-5-2 |
| Output compatibility | RS422, 7 mA input Signal converter (USIC) Source input, 5 V to 24 V |
| Output frequency | 200 kHz <= 0.5 m with USIC and VW3M8210R05 100 kHz <= 5 m with the normal source input circuit 200 kHz <= 10 m with the RS422 compatible circuits |

Complementary

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| Operating threshold | > 12 V no error supply voltage > 8 V error supply voltage |
| Input voltage | 24 V DC |
| Input current | 4.3 mA |
| Voltage state 1 guaranteed | >= 11 V |
| Current state 1 guaranteed | >= 2 mA |
| Voltage state 0 guaranteed | 5 V |
| Current state 0 guaranteed | <= 1.5 mA |
| Response time | < 200 μs for position completed input and drive ready input < 60 μs for origin input and proximity input |
| Number of outputs | 1 pulse output 2 auxiliary output |
| Preactuator voltage detection threshold | < 8 V error preactuator voltage auxiliary output < 8 V no error preactuator voltage auxiliary output |

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|---------------------------------|---|
| | > 14 V error preactuator voltage pulse output > 14 V no error preactuator voltage pulse output |
| Output voltage | 24 V DC |
| Output voltage limits | 19...30 V |
| Discrete output current | 50 mA |
| Current per channel | 0.4 A |
| Leakage current | <= 0.05 mA at state 0 |
| [Ures] residual voltage | 0.15 V at state 1 |
| Response time on output | 1.2...1.5 ms on appearance 1.2...1.5 ms on disappearance |
| Load impedance ohmic | 15000 Ohm |
| Output overload protection | By current limiter and electronic circuit breaker |
| Output short-circuit protection | By current limiter and electronic circuit breaker |
| Reverse polarity protection | By reverse mounting diode on output Integrated on input |
| Insulation between channels | No insulated |
| Insul btwn prim and second | 1500 Vrms |
| Insulation resistance | > 10 MOhm |
| Local signalling | 1 LED green module operating (RUN) 1 LED red external fault (I/O) 1 LED red internal fault, module failure (ERR) 1 LED green download (DL) 8 LEDs green channel status (CH00) 8 LEDs green channel status (CH01) |
| Electrical connection | 2 connectors 28 pins |
| Current consumption | 35 mA at 24 V DC preactuator 150 mA at 3.3 V DC typical 200 mA at 3.3 V DC maximum |
| Module format | Standard |

Environment

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|---------------------------------------|---|
| Ambient air temperature for operation | -25...70 °C |
| Derating factor | Without |
| Directives | 2012/19/EU - WEEE directive 2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive |
| Standards | EN 61000-6-2 EN 61000-6-4 EN 61131-2 EN 61010-2-201 |

Offer Sustainability

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|----------------------------------|---|
| 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

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| Warranty period | 18 months |
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