



Main

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| Range of product | Modicon X80 |
| Product or component type | Discrete input module |
| Discrete input number | 16 |
| Discrete input type | Not isolated |
| Input type | Current sink (logic positive) |
| Discrete input voltage | 24 V DC positive |
| Discrete input current | 3.2 mA |

Complementary

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|-----------------------------|---|
| Input compatibility | With 2-wire/3-wire proximity sensors IEC 60947-5-2 |
| Sensor power supply | 19...30 V |
| Current state 1 guaranteed | ≥ 2 mA |
| Current state 0 guaranteed | ≤ 1.5 mA |
| Input impedance | 7500 Ohm |
| Insulation resistance | > 10 MOhm 500 V DC |
| Power dissipation in W | 3.57 W |
| DC typical response time | 6 ms |
| DC maximum response time | 6 ms |
| Paralleling of inputs | Yes |
| Typical current consumption | 256 mA 3.3 V DC 100 mA 24 V |
| MTBF reliability | 275940 H |
| Protection type | Reverse polarity protection External overload protection 0.5 A fast blow |
| Voltage detection threshold | < 14 V DC sensor fault > 18 V DC sensor OK |
| Status LED | 1 LED (green)module operating (RUN) 1 LED per channel (green)channel diagnostic Module error (ERR) 1 LED Red 1 LED (red)module I/O |
| Net Weight | 0.25 lb(US) (0.115 kg) |

Environment

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| IP degree of protection | IP20 |
| Environmental characteristic | Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2 |
| Dielectric strength | 1500 V AC at 50/60 Hz 1 minute, primary/secondary |
| Vibration resistance | 3 gn |
| Shock resistance | 15 gn |
| Ambient air temperature for storage | -40...185 °F (-40...85 °C) |
| Ambient air temperature for operation | -13...140 °F (-25...60 °C) |

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| Relative humidity | 5...95 % 131 °F (55 °C) without condensation |
| Protective treatment | Conformal coating |
| Operating altitude | 0...2000 m 2000...5000 m with derating factor |

Ordering and shipping details

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|-----------------------|---------------------------------------|
| Category | 18161 - MODICON M580 CONTROLLERS HSBY |
| Discount Schedule | PC34 |
| GTIN | 00785901968160 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 4.33 lb(US) (1.96 kg) |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

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|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.36 in (6 cm) |
| Package 1 width | 7.09 in (18 cm) |
| Package 1 Length | 10.24 in (26 cm) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 8 |
| Package 2 Weight | 5.43 lb(US) (2.464 kg) |
| Package 2 Height | 11.81 in (30 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| 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 www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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. |