# Input module
# VAEM-XA-E-8E-N-K2

Part number: 8196630



## Data sheet

| Feature | Value |
|---|---|
| Dimensions (W x L x H) | 41.8 mm x 60.5 mm x 20.9 mm |
| Diagnostics per internal communication | Short circuit/overload Power OUT PL |
| Max. number of modules | 6 |
| Number of inputs | 8 |
| Input debounce time | 3 ms |
| Intrinsic current consumption at nominal operating voltage for electronics/sensors | Typically 4 mA |
| Max. number of inputs | 8 |
| Nominal DC operating voltage, electronics/sensors | 24 V |
| Power failure bridging | 10 ms |
| Switching level | Signal 1: ≥ 11 V |
| Fuse protection of inputs (short circuit) | Internal electronic fuse per module |
| Behaviour after end of overload of the sensor supply | Automatic return (default) |
| Voltage drop of sensor supply | 1 V |
| Max. residual current of inputs per module | 0.2 A |
| Electrical isolation of inputs between channels | No |
| Pollution degree | 2 |
| Permissible voltage fluctuations for electronics/sensors | ±25% |
| Permissible voltage fluctuation of load | ±10% |
| CE mark (see declaration of conformity) | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| KC mark | KC-EMV |
| Max. cable length | 30 m inputs |
| Vibration resistance | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class CRC | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Storage temperature | -20 °C...70 °C |
| Relative air humidity | 5 - 95% |
| Note regarding operating voltage | SELV/PELV fixed power supplies required<br>Note the voltage drop |

| Feature | Value |
|---|---|
| Degree of protection | IP20 |
| Overvoltage category | II |
| Ambient temperature | -5 °C...50 °C |
| Approval | RCM |
| Nominal altitude of use | <= 2000 m NHN |
| Product weight | 32 g |
| Characteristic for inputs | To EN 61131-2 |
| Switching logic for inputs | NPN (negative switching) |
| Electrical connection | Spring-loaded terminal |
| Electrical connection 1, connection type | Terminal strip |
| Electrical connection 1, number of connections/cores | 3 |
| Electrical connection 1, used connections/cores | 24 |
| Electrical connection 1, tightening torque | 0.7 Nm |
| Electrical connection 1, type of mounting | Screw-type lock |
| Electrical connection 1, function | Digital input |
| Material connector housing | PA |
| Electrical connection for input, conductor cross section | 0.2 mm²...1.5 mm² |
| Electrical connection for input, AWG conductor cross section | AWG28 - AWG16 |
| Electrical connection for output, note on conductor cross section | 0.09 - 1.5 mm² for flexible conductors without wire ferrules |
| Material foil | Polyester |
| Note on materials | RoHS compliant |