

| Technical Information | |
|--|---|
| model | DF58-M-16DI-P/N |
| Product Description | Digital input module, 16 inputs, NPN+PNP, 24VDC |
| Signal type | NPN&PNP |
| ON signal voltage | > 15V DC |
| OFF signal voltage | < 5V DC |
| Hardware response time | 100us/100us |
| Number of channels | sixteen |
| data size | 2 Byte |
| line type | 1-wire system, according to standard IEC 61131-2 |
| Reverse circuit protection | support |
| Isolation method | Optoelectronic isolation from the on-site layer |
| Error diagnosis | support |
| Signal (0) Input current of each channel (typical) | 0.678mA |
| Signal (1) Input current of each channel (typical) | 4.07mA |
| Signal (1) Minimum input current for each channel | 2.46mA |
| Signal (1) Maximum input current of each channel | 4.7mA |
| Filtering time | No filtering, 0.25ms, 0.5ms, 1ms (factory setting), 2ms, 4ms, 8ms, 16ms, 32ms, 2 sets of filtering parameters can be set, one set for every 8 channels, and the same filtering parameter can be shared within the group |
| Input impedance | 5.6k Ω |
| Input action display | When the input is in the drive state, the input indicator light is on (LED is controlled by the microcontroller IO software) |
| Input Derating | Derate by 75% when operating at 55 °C (with no more than 12 input points ON), or by 10 °C when the input points are ON |
| IO mapping | Supports three IO mapping methods: bit access, byte access, and word access |
| Power parameters | |
| working voltage | 24V DC +20 %/ -15 % |
| System feed current | <15mA |
| Wiring parameters | |
| Connection technology: input/output | PUSH-IN type terminal blocks |
| Connection type (1) | Input/Output |
| Crimping area of wire | 0.2~1.5mm ² /26~16AWG |
| Strip length | 8-10mm ² |
| Installation method | DIN-35 type guide rail |
| Material parameters | |
| colour | Light gray |
| Shell material | PC plastic, PA66 |
| Consistency flag | CE |
| Environmental requirements | |
| Permissible ambient temperature | -25-60 °C |

| | |
|--|---|
| (during operation) | |
| Permissible ambient temperature (storage) | -40-85 °C |
| Protection type | IP20 |
| Pollution level | 2. Comply with IEC 61131-2 standard |
| Working altitude | Temperature without derating: 0-2000m |
| Installation position | arbitrarily |
| Relative humidity (non condensing) | 5-95% RH |
| Anti vibration | 4g, in accordance with IEC 60068-2-6 standard |
| Impact resistance | 15g, in accordance with IEC 60068-2-27 standard |
| EMC - Immunity | Complies with EN 61000-6-2 standard |
| EMC - Radiated interference | Complies with EN 61000-6-3 standard |
| Corrosion resistance | Complies with IEC 60068-2-42 and IEC 60068-2-43 standards |
| Permissible H2S pollutant concentration at 75% relative humidity | 10ppm |
| Permissible SO2 pollutant concentration at 75% relative humidity | 25ppm |