REISCHEL



Technical Information

IQAN-XP2 I/O Modules

Environmental protection

EMI

EN 61000-4-3, Conducted susceptability EN 50204-4-3, Radiated susceptability

ESD

EN 61000-4-2, handling

Mechanical environment

IEC 60068-2-64:1993 Fh, Random vibration IEC 60068-2-29:1987 Eb, Bump

Climate environment

IEC 60529:2001, IP66 Enclosure protection DIN 40050 Part 9:1993, IP6K9K Enclosure protection

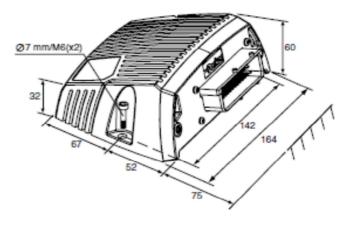
IEC 60068-2-30:1985 Db, Damp heat cyclic

IEC 60068-2-78:2001, Damp heat, steady state

IEC 60068-2-14:1984 Nb, Change of temperature

Chemical environment

IEC 60068-2-52:1996 Kb, Salt mist



unit=mm



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Technical Information

IQAN-XP2 I/O Modules

Application

IQAN-XP2 is one of the "rugged generation" IQAN expansion modules. Key improvements for this generation of modules are flexibility, weather resistance and safety.

All IQAN expansion modules communicate with a master over a CAN-BUS serial link. Mobile machine I/O (inputs and outputs) can be optimised by selecting the appropriate expansion modules from the IQAN product family.

Properties

Flexibility

The IQAN-XP2 module has a flexible I/O interface which gives system designers increased options. The same physical pin can be used for different types of I/O.

Additional types of I/O such as PWM outputs increase the flexibility of the module. Digital outputs have features including softstart and peak & hold.

Weather resistance

The enclosure is designed and manufactured in aluminum to make the module rugged but light. The module has a membrane to prevent condensation from forming inside the enclosure. The IQAN-XP2 unit is designed for a wide temperature range in an outdoor environment.

Safety

The IQAN-XP2 executes a self-test during start up and cyclic operation. Detected errors are sent to the master. An internal watch dog checks for software errors and will interrupt outputs if errors are detected. All inputs are protected against EMI and voltage transients. Automotive connectors are used that fulfil mechanical and electrical demands.

System diagnostics: If an error is detected a LED on the rear of the module flashes a sequence to indicate the nature of the error.

General

Weight 0.7 Kg
Operating temperature -40 - +70 °C
Protection outdoor use
Voltage supply 9 - 34 Vdc

Current consumption (idle) 180 mA (28 Vdc) 170 mA (14 Vdc)

Data interface Parker ICP

(IQAN CAN Protocol)

Outputs

Proportional current outputs

 Number
 4 double

 Signal range
 60 - 1800 mA

 Dither frequency
 25 - 150 Hz

 Dither amplitude
 0 - 500 mA

 Resolution
 0.7 mA

Digital/ PWM (no current feedback) outputs 1)

Number 4 / 2 double
Type high side switch

Max load 3 A

PWM frequency 25 - 2000 Hz

Inputs

Voltage/Frequency 2)

 Number
 4 / 2

 Signal range
 0 - 5 Vdc

 Resolution
 5 mV

 Frequency range
 1-10 000 Hz

- The Digital and PWM outputs share the same physical pin. Pin configuration for either Digital or PWM output is carried out with IQANdevelop.
- The voltage and frequency inputs share the same physical pins.

Pin configuration for either Voltage or Frequency input is carried out with IQANdevelop.

Ordering part number

IQAN-XP2 5010016