Protected VARAN Digital Mixed Module
PVDM 086

The PVDM 086 Protected VARAN Digital Mixed Module has eight +24 V/2 A digital outputs (positive switching) that are back-readable and therefore can be used as inputs. In addition, the outputs are short-circuit protected. There are also diverse diagnostic functions available in this module:

- The status of the outputs is back readable.
- Each I/O socket is monitored for current surges in the sensor supply.

The status is shown with red LEDs and can be read back. Input filters are available to suppress noise signals occurring in the signal lines.

Interfaces

Interfaces	1x VARAN In (M12) 1x VARAN Out (M12)

Digital Outputs

Number of outputs	8
Short-circuit proof	yes
Back readable	yes
Maximum continuous current load allowed per channel	2 A
Maximum total current per group of 4 (I/O 1-4 or 5-8)	2 A
Maximum total current (all 8-channels)	4 A (100 % of on-time)
Voltage drop over power supply (output active)	≤ 1 V
Residual current (output inactive)	≤ 1 mA
Turn-on delay	< 200 µs
Turn-off delay	< 200 µs
Status display	yellow LEDs

Digital Inputs (back readable output)

Number of inputs	8	
Input voltage	typically +24 V	maximum +30 V
Sensor supply current limit	maximum 100 mA per I/O socket	
Signal level	low: < 4.5 V	high: > +14 V
Switching threshold	typically +11 V	
Input current	typically 5 mA at +24 V	
Input delay	typically 5 ms	
Status display	yellow LEDs	

Electrical Requirements

Bus supply voltage	18-30 V DC	
I/O supply	18-30 V DC	
Current consumption of the bus supply	typically 85 mA	maximum 100 mA
Current consumption of I/O supply	depends on the load of the digital outputs and the current capacity on the sensor supply: maximum 4 A	

Article Number and Miscellaneous

Article number	14-108-086
Dimensions	30 x 175 x 32.8 mm (W x H x D)

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Operating temperature	0 ... +60 °C	
EMC stability	in accordance with EN 61131-2	
Shock resistance	EN 60068-2-27	150 m/s²
Protection type	EN 60529	IP67