

# Protected VARAN Digital Mixed Module

## PVDM 085



The PVDM 085 protected VARAN module is designed for the protection class IP67 and has eight +24V / 0.5A digital outputs (positive switching) that are re-readable. They can also be used as inputs. In addition, the outputs are short circuit protected.

LEDs show the actual status of each individual channel, which provides an exact diagnosis. In addition, a red LED per plug connection signals an error message for overload or short circuit condition.

Input filters are provided to suppress noise in the signal lines.

### Digital outputs

Number of outputs	8
Short circuit protected	yes
Back readable	yes
Maximum allowed continuous current / channel	0.5A
Maximum total current (all 8 channels)	4A (100% on time)
Voltage drop over supply (output active)	≤1V
Residual current of output (inactive)	≤1mA
Turn on delay	<200μs
Turn off delay	<200μs
Status display	LEDs yellow

### Digital inputs (re-readable output)

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

### Electrical requirements

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

### Article number and miscellaneous

Article number	14-108-085	
Software macro	PVDM0850_IM	
Hardware version	1.x	

### Environmental conditions

Storage temperature	-20 – +85°C	
Operating temperature	0 – +60°C	
EMV stability	according to EN 61131-2	
Shock resistance	EN 60068-2-27	150m/s <sup>2</sup>
Protection type	EN 60529	IP67