Protected VARAN Digital Mixed Module PVDM 087



The protected VARAN Digital Mixed Module PVDM 087 has four digital outputs +24 V/2 A (positive switching and four digital inputs. In- and outputs are gavanically separated from the VARAN bus. Inputs and outputs have a separate supply. The outputs are also back-readable. There are also diverse diagnostic functions available in this module. Input filters are available to suppress noise signals occurring in the signal lines.

Next to the I/O connectors, LEDs show the signal status as well as the error status. The VARAN Out port allows the construction of the VARAN bus in a line structure. The component has IP67 protections.

Interfaces		
	Interfaces	1x VARAN In (M12) (maximum length: 100 m) 1x VARAN Out (M12) (maximum length: 100 m)

Digital Outputs			
	Number of outputs	4	
	Short-circuit proof	yes	
	Galvanic isolation	yes (60 V)	
	Maximum continuous current load/ channel	4 A (50 % of on time)	
	Maximum total current	4 A (50 % of on time) 2 A (100 % of on time)	
	Voltage drop over power supply (output current 4 A)	≤1V	
	Residual current (inactive)	≤ 0.1 mA	
	Turn-on delay	< 300 µs	
	Turn-off delay	< 300 µs	
	Status display	yellow LEDs	

Digital	Inputs			
	Number of inputs	4		
	Galvanic isolation	yes (60 V)		
	Input voltage	typically +24 V	maximum +30 V	
	Maximum sensor supply current	80 mA per input		
	Signal level	low: < +5 V	high: > +15 V	
	Switching threshold Input current Maximum allowable residual current	typically +11 V		
		typically 6 mA at +24 V		
		0.1 mA		
	Input delay	typically 6 ms		
	Status display	yellow	yellow LEDs	

Electri	cal 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 sensor supply: maximum 4 A	

Article Number and Miscellaneous		
	Article number	14-108-087
	Software macro	PVDM0850_IM
	Dimensions	30 x 175 x 32.8 mm (W x H x D)
	Standard	UL 508 (E247993)

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