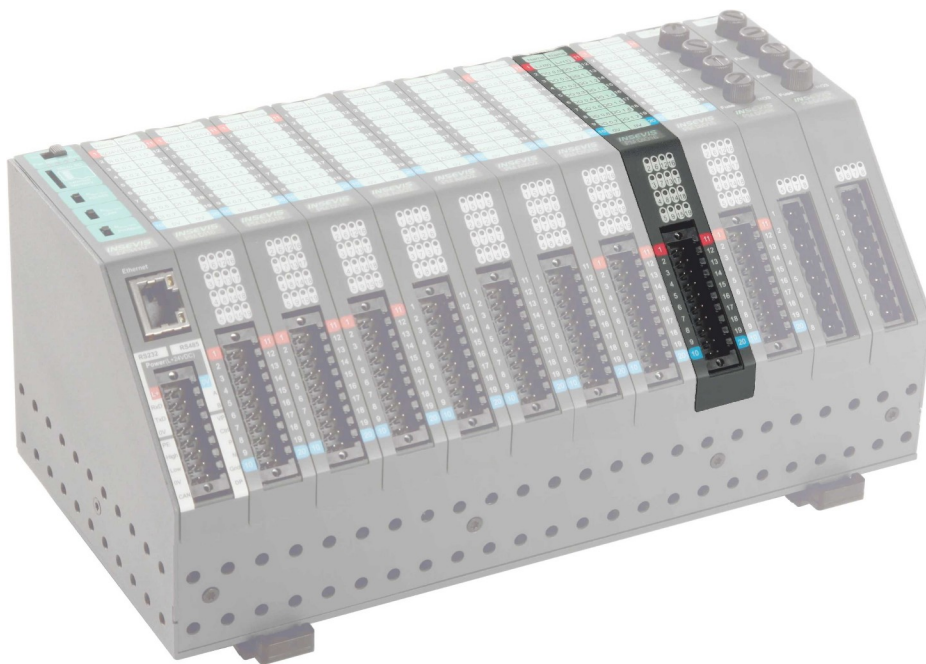


# Product Information

# Periphery module

# PM DI16



(valid from 06/2012)

## Changes to older versions of this document

- Changed in Rev. 4:** in-/ output delay times changed
- Changed in Rev. 5:** connectors, new design line
- Changed in Rev. 6:** input threshold voltage
- Changed in Rev. 7:** information for disposal of old equipment

## Description

### compact periphery module for 16 digital inputs 24V

- green diagnostic LED for each input
- insertion stripe with description field for every signal
- cage-clamp connector with bolt flanges on side

## Application with 2-wire switches

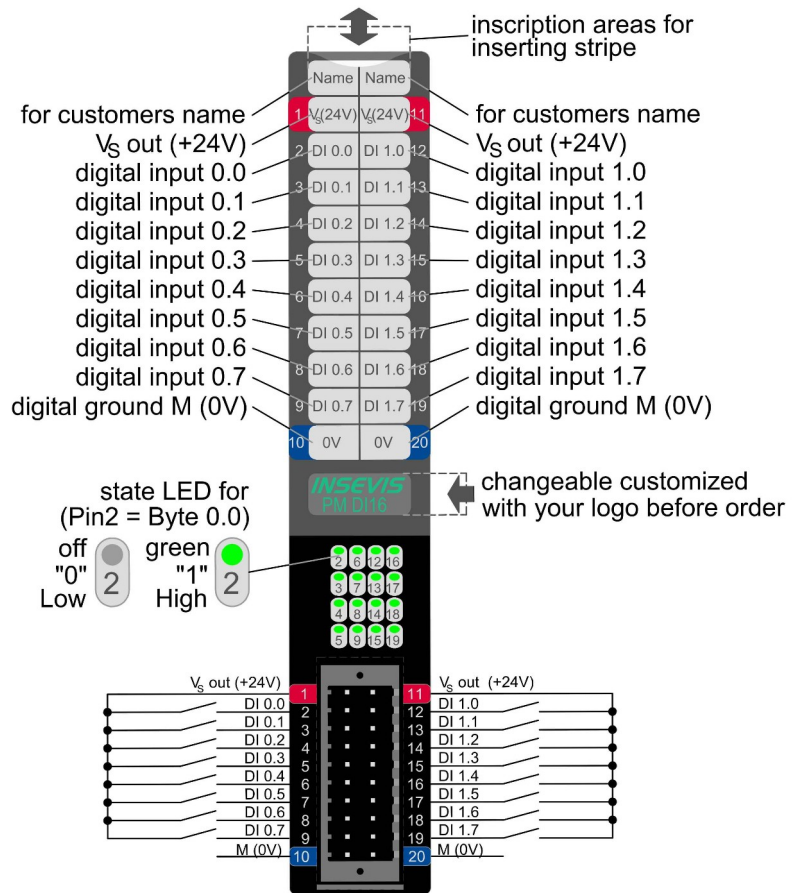


Figure above: Description and wiring of all connections of periphery module DI16

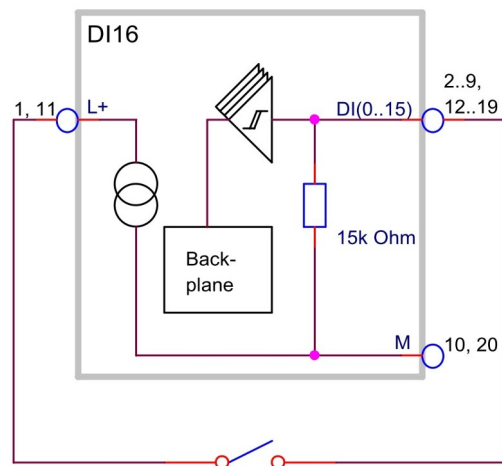


Figure above: Block diagram of DI16 for 2 wire switches

Input	
Start address:	<input type="text" value="0"/>
End address:	<input type="text" value="1"/>
Output	
Start address:	<input type="text" value="0"/>
End address:	<input type="text" value="0"/>

Figure above: Configuration block of start-/end addresses of DI16-inputs (in byte) in the ConfigStage

## Description

### compact periphery module for 16 digital inputs 24V

- green diagnostic LED for each input
- insertion stripe with description field for every signal
- cage-clamp connector with bolt flanges on side

## Application with 3- / 4-wire switches

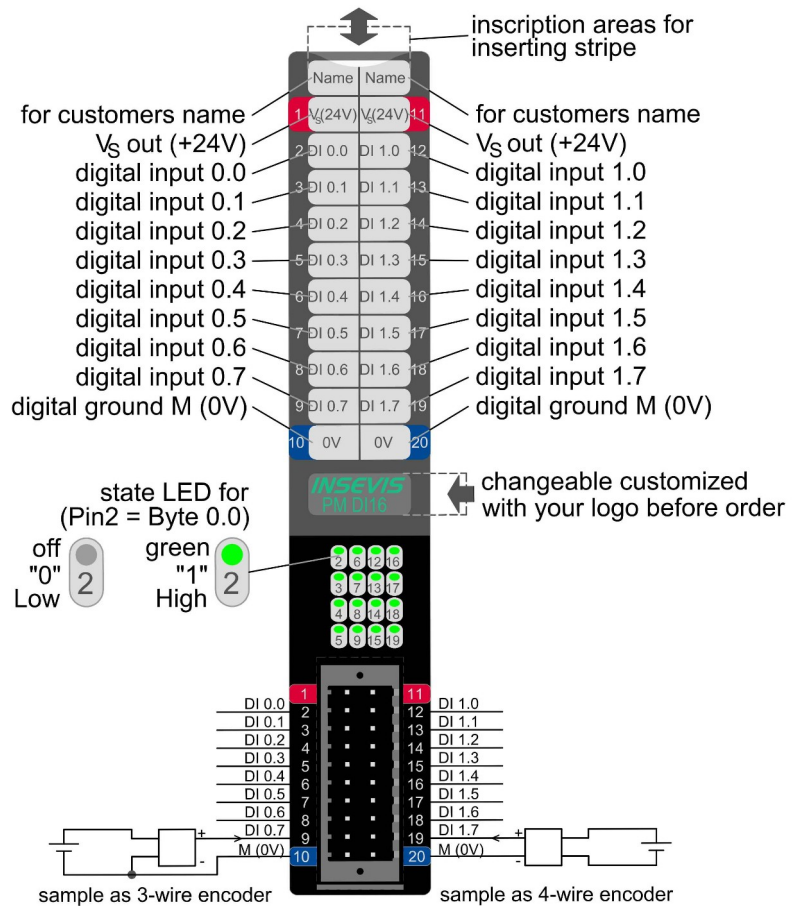
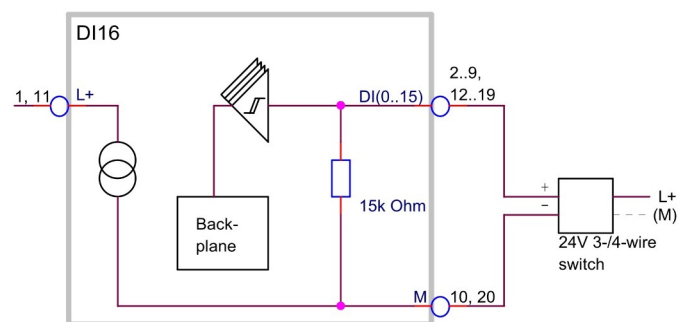


Figure above: Description and wiring of all connections of periphery module DI16



left: Block diagram of DI16 for 3- and 4-wire switches

**Input**

Start address:

End address:

**Output**

Start address:

End address:

left: Configuration block of start-/ end addresses of DI16-inputs (in byte) in the ConfigStage

Technical data	
Dimensions W x H x D (mm) Weight	20 x 108 x 70 mm ca. 150 g
Operating temperature range Storage temperature range Relative humidity	-20°C ... +60°C (without condensation) -30°C ... +80°C up to 96% (without condensation)
Connection technology	connector with cage clamp technology for cross section up to max. 1,5mm <sup>2</sup>
IP-protection class Vibrations	IP41 Frequency range 2 -100Hz, amplitude 1mm peak < 13,2Hz acceleration 0,7g >13,2Hz
Sensor supply Load voltage L+	short circuit proof output, current limited to 30 mA (typ.) 24V DC (11V ... 30V DC, is connected by device supply)
Wire length unshielded (max.) shielded (max.)	30 m 100 m
Digital inputs Diagnostic LEDs	16 16, green
Input voltage for signal 0 for signal 1	0V ... +5 V +10,5V ... +30 V
Input current for signal 1	1 mA
Broken wire detection Potential separation to PLC Access of 2-wire-BERO	no no no
Switch on delay Switch off delay Sampling cycle time	90 µs (typ.) 1,4 ms (typ.) as onboard module on the PLC = cycle synchronous

Ordering data module		
Identification	Order-no.	Packaging unit
Periphery module <b>DI16</b>	PM-DI16-02	PU: 1 piece
Connector 2x10pin with pin markings and bolt flanges on side	E-CONS20D-00	PU: 1 piece

#### Qualified personnel

All devices described in this manual may only be used, built up and operated together with this documentation. Installation, initiation and operation of these devices might only be done by instructed personnel with certified skills, who can prove their ability to install and initiate electrical and mechanical devices, systems and current circuits in a generally accepted and admitted standard.

#### Manuals, sample programs

Additional documentation by manuals is available as well sample applications at the download area of [www.insevis.com](http://www.insevis.com) in English language for free download.

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#### Disposal



Do not throw old appliances in the household waste! In the interest of environmental protection, old appliances must be collected separately from unsorted municipal waste. You can find out more about the proper disposal / return of your old appliance at [www.insevis.com/disposal](http://www.insevis.com/disposal).

Attention: The deletion of personal data on the old devices to be disposed of is the responsibility of the end user.

With publication of this information all other versions are no longer valid.