

Product Information Periphery module PM DI016





(valid from 06/2012)

Changes to older versions of this document

Changed in Rev. 4: Changed in Rev. 5: Changed in Rev. 6: Changed in Rev. 7:

- in-/ output delay times changed
- information for a byte wise switching off of all outputs
- connectors, new design line
- v. 7: wiring of outputs (2-wire-encoders) corrected

INSEVIS

Description

- compact periphery module for 16 digital transistor outputs 24V with backreadable inputs
- green diagnostic LED for each in-/ output
- insertion stripe with description field for every signal
- cage-clamp connector with 2 lift arms or bolt flanges on side
- <u>Scope of delivery:</u>
 technical information
 brief instruction

INSEVIS- benefit:

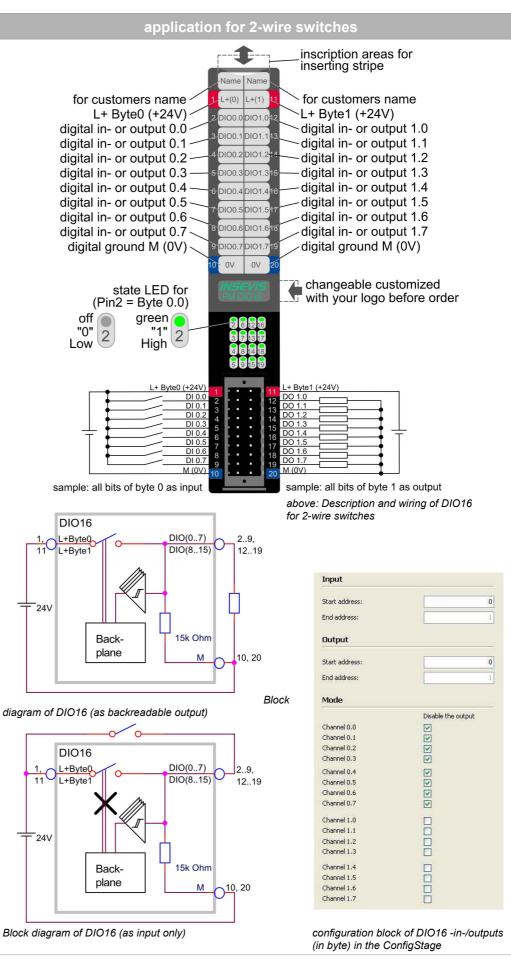
Each single outputs can be switched off, so that you can realize different ratios of I/Os e.g.10dI and 6dO or 7dI and 9dO. Only the total sum of I/Os must be \leq 16.

Attention:

L+supplys of the outputs are separated for each byte (left and right).

 \rightarrow At a use as outputs only all these outputs can be switched off together by switching off the L+ supply of this byte.

 \rightarrow If there are used some of these bits as inputs, they may not have applied a voltage (24V) while switching off.



INSEVIS

Description

- compact periphery module for 16 digital transistor outputs 24V with backreadable inputs
- green diagnostic LED for each in-/ output
- insertion stripe with description field for every signal
- cage-clamp connector with 2 lift arms or bolt flanges on side
- <u>Scope of delivery:</u>
 technical information
 brief instruction

INSEVIS- benefit:

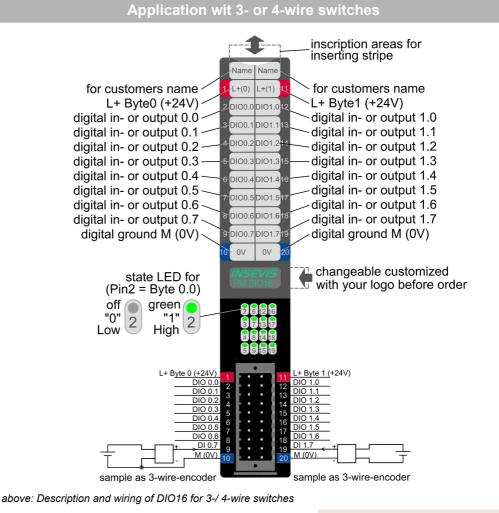
Each single outputs can be switched off, so that you can realize different ratios of I/Os e.g.10dI and 6dO or 7dI and 9dO. Only the total sum of I/Os must be \leq 16.

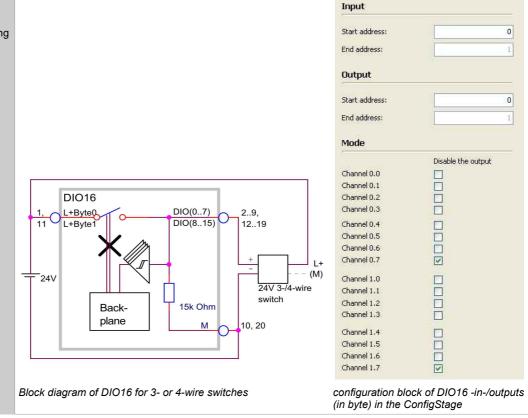
Attention:

L+supplys of the outputs are separated for each byte (left and right).

 \rightarrow At a use as outputs only all these outputs can be switched off together by switching off the L+ supply of this byte.

 \rightarrow If there are used some of these bits as inputs, they may not have applied a voltage (24V) while switching off.







Technical data

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	-20°C +60°C (without condensation) -30°C +80°C		
Connection technology	connector with cage clamp technology for cross section up to max. 1,5mm ²		
Load voltage L+ Current consumption Power dissapation	10 V 30 V DC 50 mA (without load) internal limited		
Wire length unshielded (max.) shielded (max.)	30 m 100 m		
Digital in-/ outputs Diagnostic LEDs	16 in- or outputs (adjustable by software) 16, green		
Output current for signal 0 for signal 1 Cumulated current per output-byte	0,5 mA (max.) 0,5 A (max. bis 60°C) 3 A (max. bis 60°C)	Input current for signal 1	1 mA (typ.)
Signal level of outputs for signal 0 for signal 1	1,0 V at 500 Ω (max.) L+ - 1,0 V at 0,5 A load (min.)	Input voltage for signal 0 for signal 1	0V +5 V +7,5V +30 V
Input delay Output delay	50 μs (typ.) 30 μs (typ., without load)	Input delay Output delay Sampling cycle time	1,5 ms (typ.) 4,6 ms (typ.) synchronous to cycle
Max. switching frequency with ohmic load	100 Hz		
Broken wire detection Error diagnostic Potential separation to PLC	no no		

Ordering data module

Identification	Order-no.	Packaging unit
Periphery module DIO16	PM-DIO16-02	PU: 1 pieces

Ordering data accessoires

Identification	Order-no.	Packaging unit
Connector 2x10pin with pin markings and lift arms on side	E-CON20D-00	PU: 1 piece
Connector 2x10pin with pin markings and bolt flanges on side	E-CONS20D-00	PU: 1 piece
Spare part: Inserting stripe for description fields, 2x11 fields *	E-LABES22-00	PU: 20 pieces
Inserting stripe V for logo and identification for rear side *	E-LABV-00	PU: 100 pieces

* (1x already part of first deliveries scope)

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 in English language for free download.

Copyright

This and all other documentation and software, supplied or hosted on INISEVIS web sites to download are copyrighted. Any duplicating of these data in any way without express approval by INSEVIS GmbH is not permitted. All property and copy rights of theses documentation and software and every copy of it are reserved to INSEVIS GmbH.

Disclaimer

All technical details in this documentation were created by INSEVIS with highest diligence. Anyhow mistakes could not be excluded, so no responsibility is taken by INSEVIS for the complete correctness of this information. This documentation will reviewed regularly and necessary corrections will be done in next version. With publication of this data all other versions are no longer valid. With publication of this information all other versions are no longer valid.