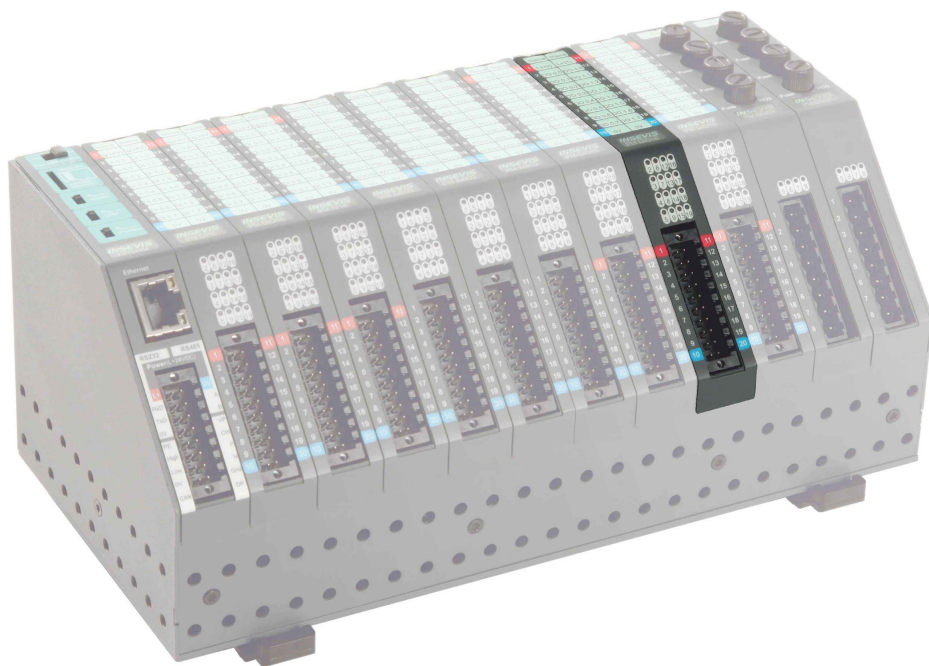


Product Information

Periphery module

PM DIO16



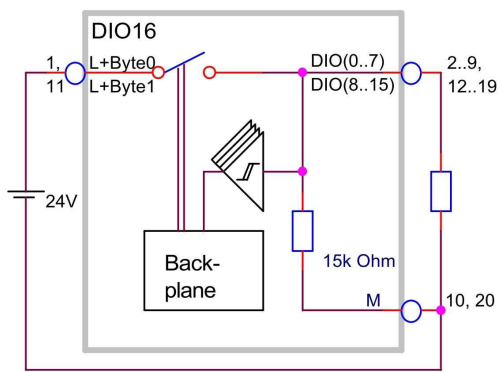
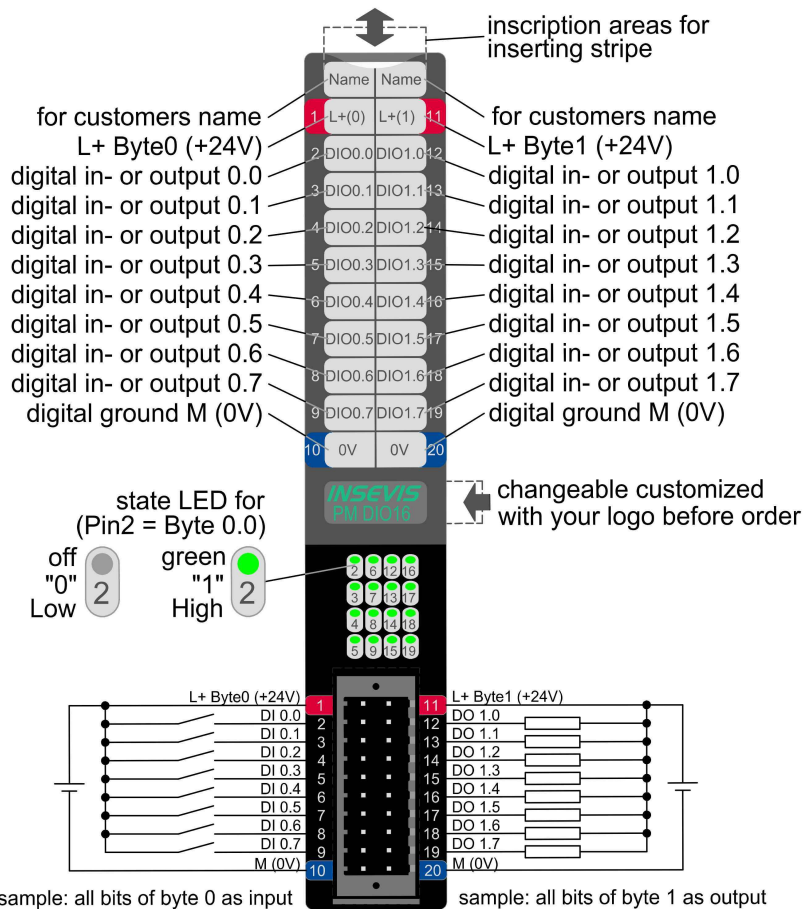
(valid from 06/2012)

Description

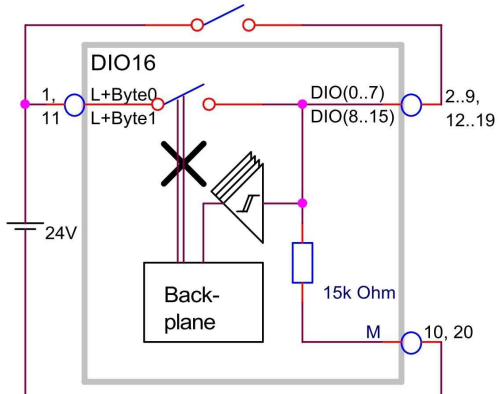
compact peripheral module for **16 digital transistor outputs 24V with back-readable inputs**

- green diagnostic LED for each in-/ output
- insertion stripe with description field for every signal
- cage-clamp connector with self-lock and 2 lift arms
- **Scope of delivery:**
 - technical information
 - brief instruction

application for 2-wire switches



Block diagram of DIO16 (as backreadable output)



Block diagram of DIO16 (as input only)

above: Description and wiring of DIO16 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="1"/>
Mode	
	Disable the output
Channel 0.0	<input checked="" type="checkbox"/>
Channel 0.1	<input checked="" type="checkbox"/>
Channel 0.2	<input checked="" type="checkbox"/>
Channel 0.3	<input checked="" type="checkbox"/>
Channel 0.4	<input checked="" type="checkbox"/>
Channel 0.5	<input checked="" type="checkbox"/>
Channel 0.6	<input checked="" type="checkbox"/>
Channel 0.7	<input checked="" type="checkbox"/>
Channel 1.0	<input type="checkbox"/>
Channel 1.1	<input type="checkbox"/>
Channel 1.2	<input type="checkbox"/>
Channel 1.3	<input type="checkbox"/>
Channel 1.4	<input type="checkbox"/>
Channel 1.5	<input type="checkbox"/>
Channel 1.6	<input type="checkbox"/>
Channel 1.7	<input type="checkbox"/>

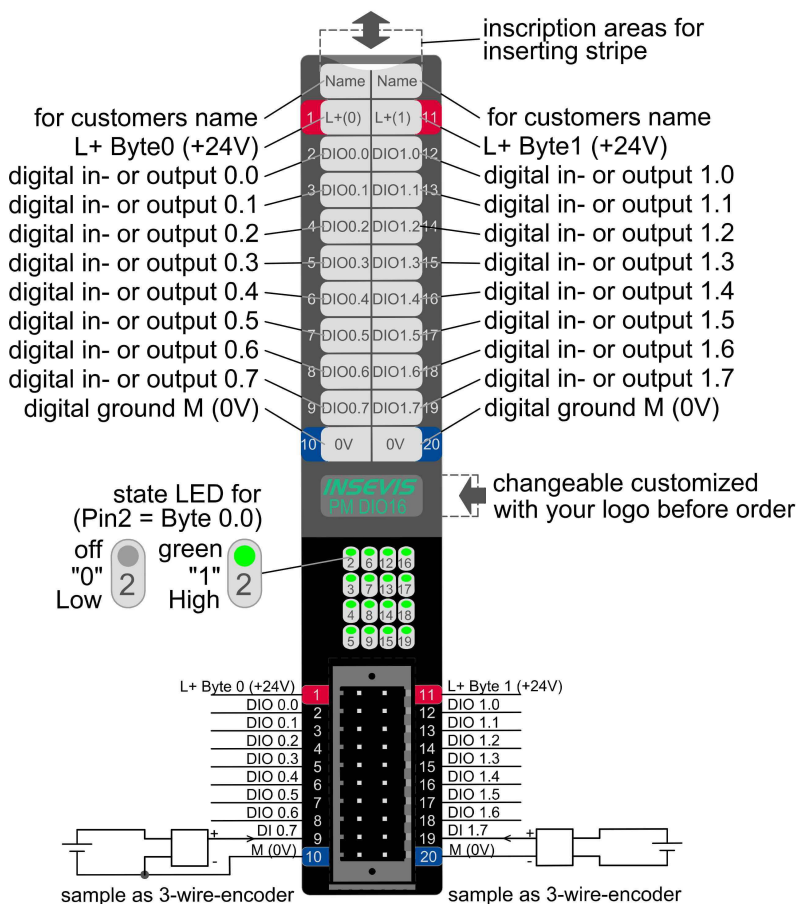
configuration block of DIO16 -in-/outputs (in byte) in the ConfigStage

Description

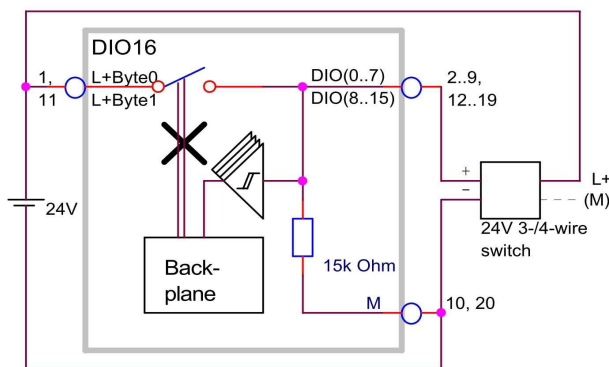
compact periphery module for **16 digital transistor outputs 24V with back-readable inputs**

- green diagnostic LED for each in-/ output
- insertion stripe with description field for every signal
- cage-clamp connector with self-lock and 2 lift arms
- **Scope of delivery:**
 - technical information
 - brief instruction

Application with 3- or 4-wire switches



above: Description and wiring of DIO16 for 3-/ 4-wire switches



Block diagram of DIO16 for 3- or 4-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="1"/>
Mode	
	Disable the output
Channel 0.0	<input type="checkbox"/>
Channel 0.1	<input type="checkbox"/>
Channel 0.2	<input type="checkbox"/>
Channel 0.3	<input type="checkbox"/>
Channel 0.4	<input type="checkbox"/>
Channel 0.5	<input type="checkbox"/>
Channel 0.6	<input type="checkbox"/>
Channel 0.7	<input checked="" type="checkbox"/>
Channel 1.0	<input type="checkbox"/>
Channel 1.1	<input type="checkbox"/>
Channel 1.2	<input type="checkbox"/>
Channel 1.3	<input type="checkbox"/>
Channel 1.4	<input type="checkbox"/>
Channel 1.5	<input type="checkbox"/>
Channel 1.6	<input type="checkbox"/>
Channel 1.7	<input checked="" type="checkbox"/>

configuration block of DIO16 -in-/outputs (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	-20°C ... +60°C (without condensation) -30°C ... +80°C
Connection technology	unlockable connector with self-lock and 2 lift-arms (cage clamp technology) for cross section up to max. 1mm ²
Load voltage L+ Current consumption Power dissipation	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 16, green
Output current for signal 0 for signal 1	0,5 mA (max.) 0,5 A (max. bis 60°C)
Cumulated current per output-byte	3 A (max. bis 60°C)
Input delay Output delay	50 µs (typ.) 30 µs (typ., without load)
Max. switching frequency	100 Hz with ohmic load
Broken wire detection Error diagnostic Potential separation to PLC	no no
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.)

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	E-CON20-00	PU: 1 pieces
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)

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