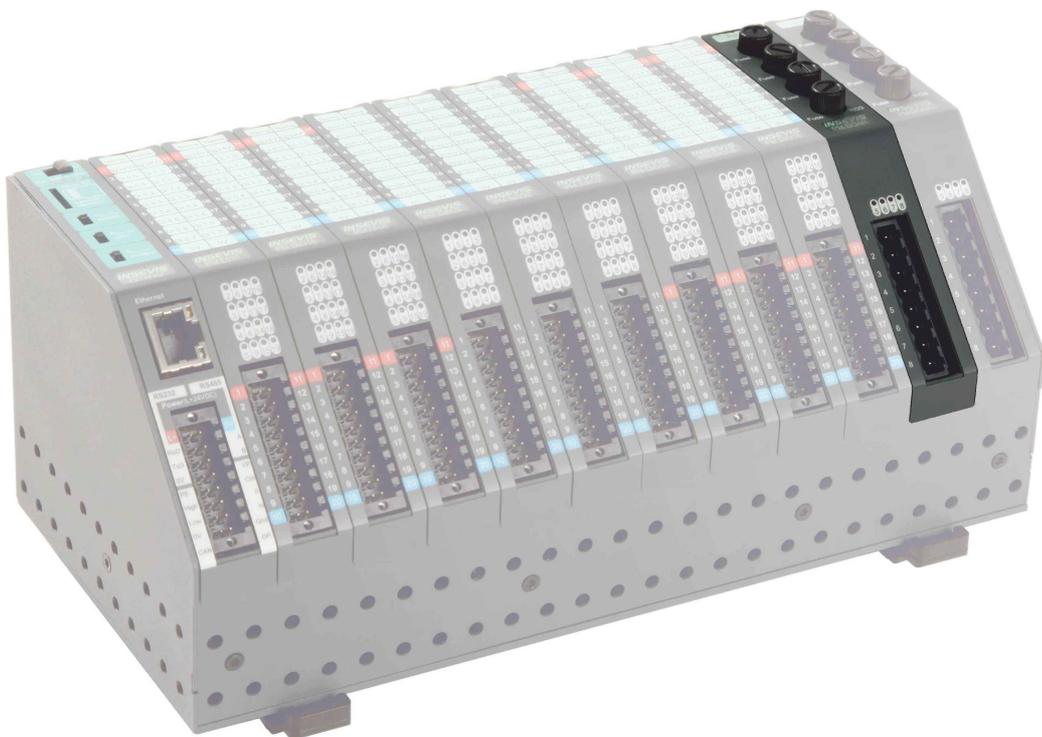# Product Information

Periphery module
PM DO4-R

(valid from 06/2012)

Changes to older versions of this document

Changed in Rev. 4:   connectors, new design line

Description

compact periphery module
for 4 relay outputs 230V AC

• 4 potential separated
  contacts

• 4 glass bulb fuses 5x20mm
  (1 for each relay)

• insertion stripe for 2 name
  fields

• green diagnostic LED
  for each output

• screwed contact connector

• **Note:**
  Because of the fuses
  position this module is
  to be placed in the 3
  very right slots only..

  (Other positions ore more
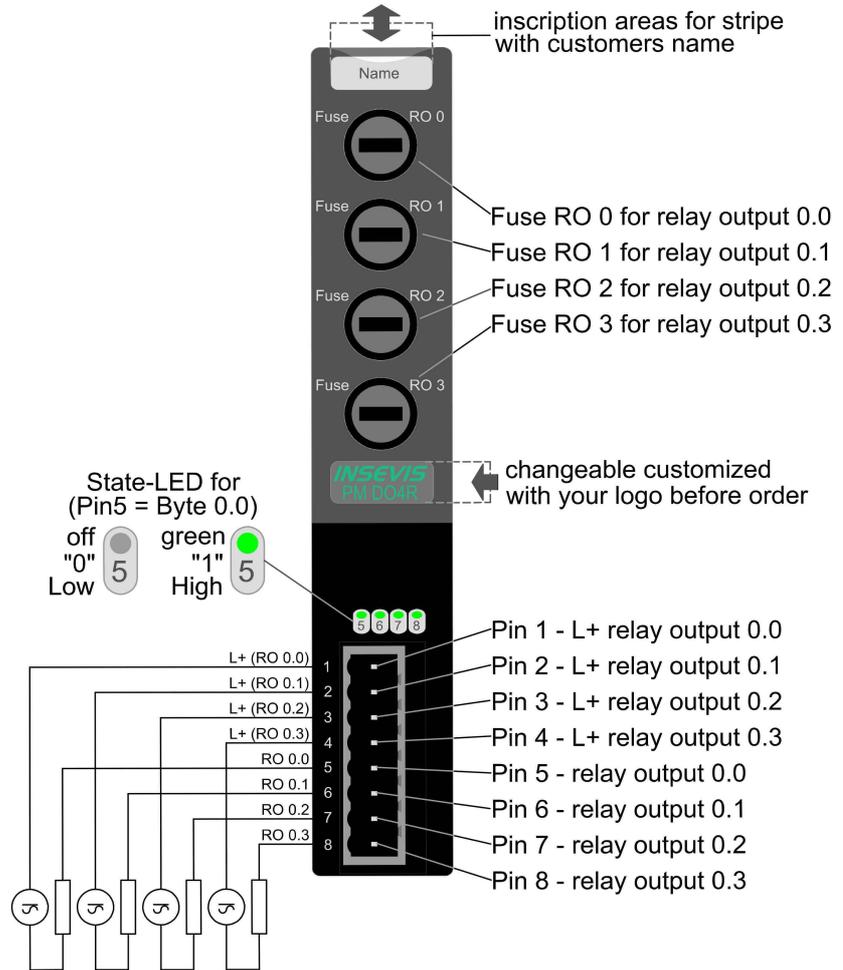 than 3 modules possible on
  request.)

inscription areas for stripe
with customers name

Name

Fuse RO 0 for relay output 0.0
Fuse RO 1 for relay output 0.1
Fuse RO 2 for relay output 0.2
Fuse RO 3 for relay output 0.3

changeable customized
with your logo before order

State-LED for
(Pin5 = Byte 0.0)

off   green
"0"   "1"
Low   5   High   5

Pin 1 - L+ relay output 0.0
Pin 2 - L+ relay output 0.1
Pin 3 - L+ relay output 0.2
Pin 4 - L+ relay output 0.3
Pin 5 - relay output 0.0
Pin 6 - relay output 0.1
Pin 7 - relay output 0.2
Pin 8 - relay output 0.3

L+ (RO 0.0)
L+ (RO 0.1)
L+ (RO 0.2)
L+ (RO 0.3)
RO 0.0
RO 0.1
RO 0.2
RO 0.3

Figure above: Description and wiring of all connections of periphery module DO4-R

DO4R

L0   R0
L1   R1
L2   R2
L3   R3

Back-
plane

Input

Start address: 0
End address: 0

Output

Start address: 8
End address: 8
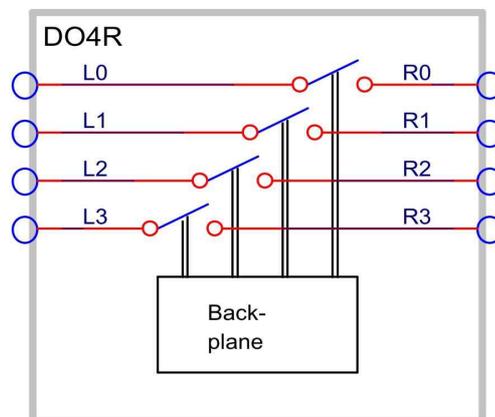
Figure above: Block diagram of DO4-R

*Figure above: Configuration block oft start-/
end addresses of DO4-R (in byte) in the
ConfigStage*

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	unlockable connector (cage clamp technology) for cross section up to max. 1,5mm^2
Load voltage L+ Load voltage L+ on the relay Current consumption Power dissapation	24 V (17 V ... 30 V, connected by device supply) 30 V DC (max.), 250 V AC (max.) 45 mA from L+ (max.) 0,8 W at 24V (max.)
Wire length unshielded (max.) shielded (max.)	30 m 100 m
Digital outputs Diagnostic LEDs	4 4, green
Topography	4 potential separated contacts
Input delay Output delay	5 ms ... 10 ms (typ.) 2 ms ... 5 ms (typ.)
Switching capacity of contacts at inductive load at ohmic load	3A (max.) 3A (max.)
Max. switching frequency mechanical with load	50 Hz 5 Hz
Typ. number of switching operations mechanical with 3A	 20Mio 100.000
Broken wire detection Error diagnostic Potential separation to PLC Short circuit proof	no yes yes - melting fuse in glass bulbs 5x20mm

Ordering data module

Identification	Order-no.	Packaging unit
Periphery module **DO4-R**	PM-DO4R-02	PU: 1 piece

Ordering data accessoires

Identification	Order-no.	Packaging unit
Connector 2x10pin	E-CON08-00	PU: 1 piece
Inserting stripe for name field at rear side*	E-LABES02-00	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.