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Pin connection

Digital Inputs 0-7

CAN-Bus

Error LED
Bus LED
RUN LED

AM-16DI

CAN address/node-ID

Local bus (CAN+ Power supply)

Ribbon cable connection DI 0-15

-XS1

-XS2

Digital Inputs 8-15

Power supply

Principle circuit diagram

DI0
DI1

SF, BF1, RUN

µC

Local Bus

CAN

24V Bus

DI14
DI15

IGND

24V   3,3V

24V / GND

16-channel-digital input module

- 16-channel digital input module for 24 VDC
- galvanically separated
- 16 integrated counter
- CANopen

- the CANopen digital input module provides 16 channel
- available of a fast internal counter for every input given
- the signals can be connect by the sideways plugs as well as the ribbon cable
- the CAN-Bus can be turned on by either using a plug on the side of the module or on the backplane

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Description

Description	Item no.
AM-16DI	AM-16DI

Accessories

designation system (plug marker)	on request
printed designation system (plug marker)	included
system terminal block (wire to ribbon cable)	S-HER-TH-3-60/14
system terminal block with LED (wire to ribbon cable)	S-HER-TH-3-60/14D
mounting rail bus system (gold)	250 mm, 500 mm, 750 mm

Certification

conformity marking	CE
CANopen	in preparation
RoHS	yes

Technical data

number of inputs	16
voltage supply	24 VDC
power input (system)	Ca. 200 mA
data	16 x 1 Bit input 16 x 1 Byte counter 4 x 1 Byte status/error
width x high x depth	22,5 x 113,6 x 117,2 mm
weight	0,12 kg
ambient temperature (operation and storage)	-20 °C … 55 °C
permissible humidity (operation and storage)	5 % … 75 % (non-condensing)
degree of protection	IP20
mounting position	any
wire cross-section	0,13 mm² … 2,5mm²
wire cross-section (AWG)	26 … 14
mechanical tests	EN 60068-2-6/ IEC 60068-2-6
pull-off force	Ca. 18,4 N
input filter	0, 1, 10 (Default), 50, 100, 150, 200 ms
type of sensor	type 2
type of connection	screw terminal
connection system	1-wire
type of installation	terminal rail

Regulation

EMC	EN 60730-1:2012-10 EN 61000-6-3:2007-9 EN 61000-6-1:2007:10
low voltage directive	2006/95/EC

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