

PCD3.A465

16 digital outputs, 0.5 A for each

Low cost output module with 16 transistor outputs

5 ... 500 mA, with short-circuit protection.

The individual circuits are electrically connected; the voltage range is 10 ... 32 VDC.

Technical data

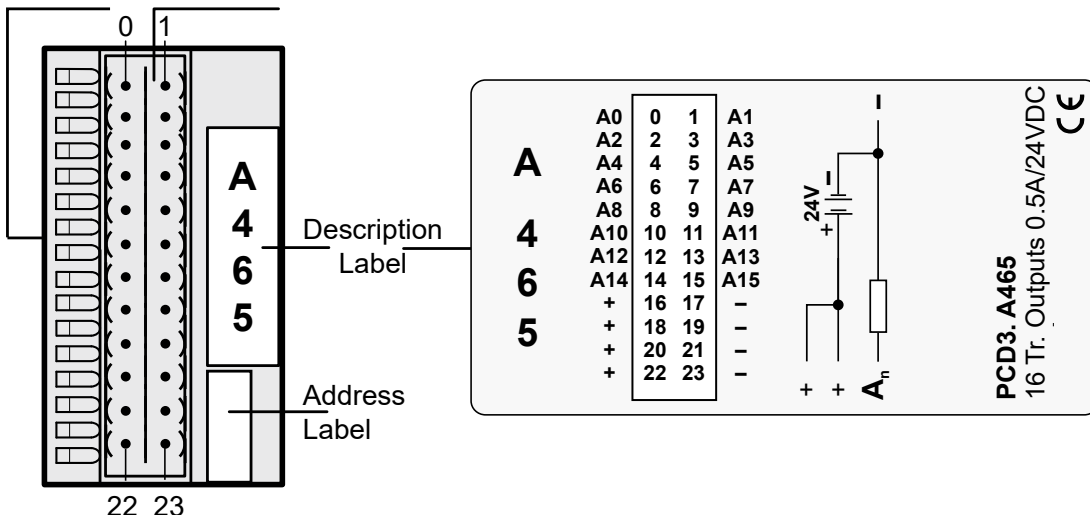
Number of outputs	16, electrically connected
Output current	5 mA... 500 mA (leakage current max. 0,1 mA). Within the voltage range 5... 24 VDC, the load resistance should be at least 48 Ω
Short circuit protection	yes
Total current per module	8 A on 100 % duty cycle
Operating mode	Source operation (positive switching)
Voltage range	10...32 VDC, smoothed, max. 10 % residual ripple
Voltage drop	≤ 0,3 V at 0,5 A
Output delay	typically 50 µs, max. 100 µs for resistive load
Resistance to interference acc. to IEC 801-4	4 kV under direct coupling 2 kV under capacitive coupling (whole trunk group)
Internal current consumption (from +5 V bus)	max 10 mA (all outputs = "1") typically 8 mA
Internal current consumption (from V+ bus)	0 mA
External current consumption	Load current
Terminals	Pluggable 24-pole spring terminal block (4 405 4956 0), for Ø up to 1 mm ²



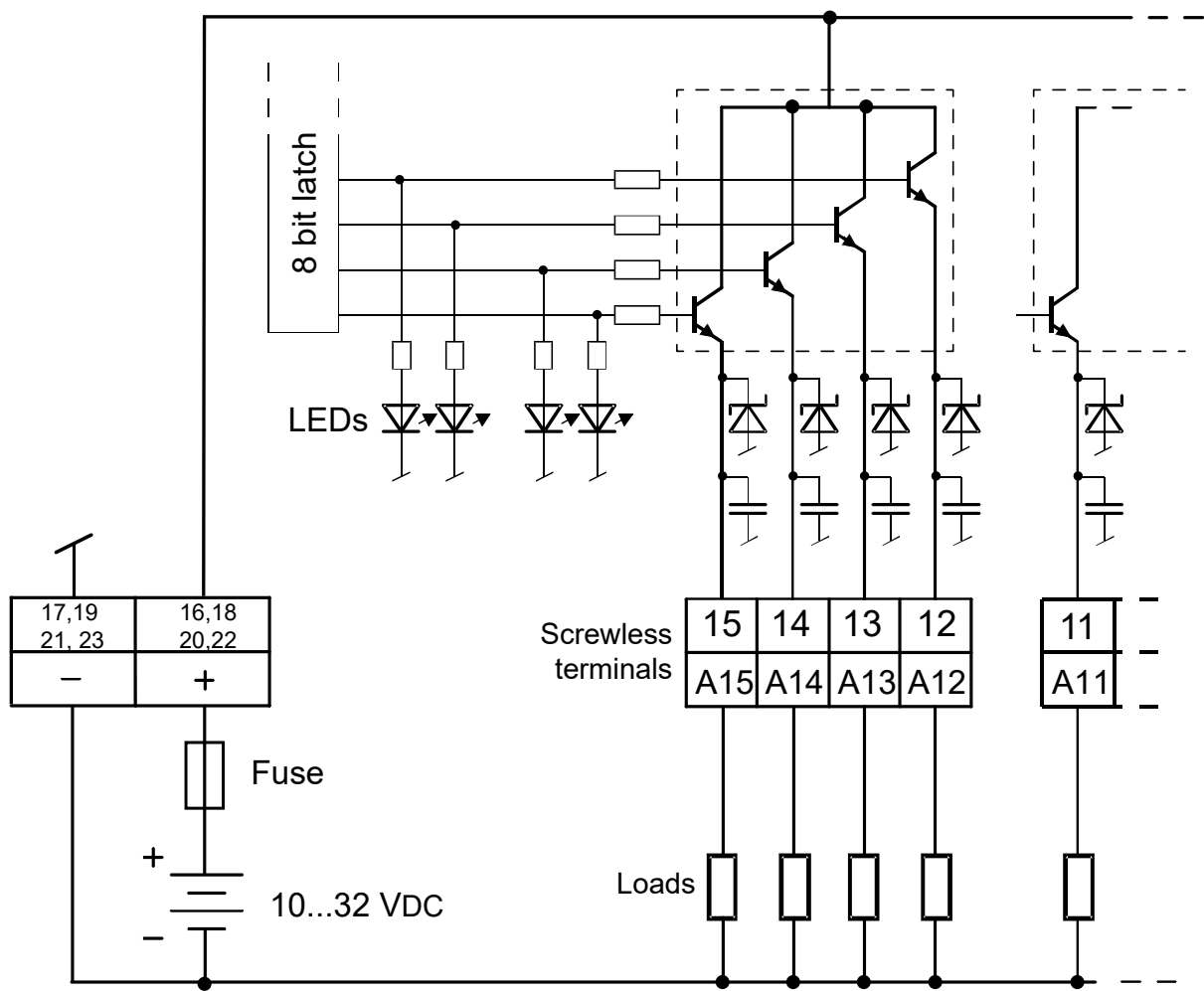
PCD3.A465

LEDs and connection terminals

LED 0...15 Terminals



Output circuits and terminal designation



	Fuse: It is recommended that each module should be separately protected with a fast-blow (S) fuse of max. 4 A.
	Watchdog: This module can interact with the watchdog, if it is used on base address 240. In this case, the last output with address 255 cannot be used.
	I/O modules and I/O terminal blocks may only be plugged in and removed when the Saia PCD® and the external +24 V are disconnected from the power supply.



ATTENTION

These devices must only be installed by a professional electrician, otherwise there is the risk of fire or the risk of an electric shock.



WARNING

Product is not intended to be used in safety critical applications, using it in safety critical applications is unsafe.



WARNING - Safety

The unit is not suitable for the explosion-proof areas and the areas of use excluded in EN61010 Part 1.



WARNING - Safety

Check compliance with nominal voltage before commissioning the device (see type label).
Check that connection cables are free from damage and that, when wiring up the device, they are not connected to voltage.
Do not use a damaged device!



NOTE

In order to avoid moisture in the device due to condensate build-up, acclimatise the device at room temperature for about half an hour before connecting.



CLEANING

The device can be cleaned in dead state with a dry cloth or cloth soaked in soap solution.
Do not use caustic or solvent-containing substances for cleaning.



MAINTENANCE

These devices are maintenance-free. If damaged during, no repairs should be undertaken by the user.



GUARANTEE

Opening the module invalidates the guarantee.

Observe this instructions (data sheet) and keep them in a safe place.
Pass on the instructions (data sheet) to any future user.



WEEE Directive 2012/19/EC Waste Electrical and Electronic Equipment directive
The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.



EAC Mark of Conformity for Machinery Exports to Russia, Kazakhstan or Belarus.



PCD3.A465



4 405 4956 0

Order details			
Type	Short description	Description	Weight
PCD3.A465	16 digital outputs for 0.5 A each	Digital output module, 16 outputs, transistors, 10...32 VDC/0.5 A, connection with spring terminals	80 g

Order details accessories			
Type	Short description	Description	Weight
4 405 4956 0	Plug-in, type C	Plug-in I/O spring terminal block, 2 × 12-pole up to 1.0 mm², labelled 0 to 23, for modules with 16 I/Os or relay module PCD3.A251, connector type "C"	15 g