

4.1.2.1 Line Control

The digital outputs DO 1 to DO 8 of the module DIO 24/16 01 can be used for short-circuit or line break monitoring of the digital inputs of the module DI 32 01 or DIO 24/16 01, for example, with EMERGENCY STOP buttons conform to Cat. 4 as specified in EN 954-1. The outputs are pulsed and connected to the safety-related inputs (see section 4.1.1.2). In this case the outputs have the function of pulsed outputs.

A module with relay contact outputs, e.g. DO 8 01, cannot be used for this purpose.



Pulsed outputs must not be used as safety-related outputs!

4.2 Equipment of the PES

A modular spacing unit (SU) has a width of 5.08 mm (0.2 inch). There is a total of 40 SU available, 24 of which can be used with any of the input and output modules as required.

Assembly (from left to right)

- first slot **only** for power supply module PS 01
- next slot **only** for central module CPU 01
- I/O slots numbered from 1 to 6,
I/O modules with various functions can be inserted
as required

The following table shows a list of modules, which are available at present:

Designation	Central functions	Width
PS 01	Power supply module	12 SU
CPU 01	Central module with communication	4 SU
Designation	Central functions	Width
AI 8 01	8 analog inputs	4 SU
AO 8 01	8 analog outputs	4 SU
CIO 2/4 01	2 counters, 4 digital outputs	4 SU
DI 24 01	24 digital inputs (110 VDC)	4 SU
DI 32 01	32 digital inputs	4 SU
DIO 24/16 01	24 digital inputs, 16 digital outputs	4 SU
DO 8 01	8 relay outputs (up to 230 VAC / 110 VDC)	4 SU
MI 24 01	24 inputs analog or digital	4 SU

Table 5: Equipment of the PES