

Digital Input/Output Module 32 x 24 V DC; 0.5 A, Safety-Related

(6ES5 482-7LF11)

**Terminal assignment**

**Simplified schematic**

**Technical Specifications**

<b>Number of inputs</b>	16, for reading: M potential
<b>Floating</b>	yes (optocoupler)
- isolated in groups of	8, connected to common P potential
<b>Input voltage</b>	24 V DC
- rated value	24 V DC
- permissible range	20 to 30 V
- value at t 0.5 sec.	35 V
<b>Input current</b>	
- at "1" signal	typ. 0.8 mA
<b>Response time</b>	
- from "0" to "1"	1.4 to 5 msec
- from "1" to "0"	1.4 to 5 msec

**Note:**  
Inputs can only be used as read-back inputs by 24 V safety-oriented outputs in the other subunit!

<b>Number of outputs</b>	16, for output: P potential
<b>Floating</b>	yes (optocoupler)
- isolated in groups of	8
<b>Output current at "1" signal</b>	
- rated value	0.5 A

The technical specifications for the outputs correspond to those of the 6ES5 451-7LA11 digital output module.

<b>Output</b>	0 to 3 and 4 to 7 8 to 11 and 12 to 15	can be switched in parallel
<b>Parallel current</b>		0.8 x I <sub>rated</sub>
<b>Permissible current of outputs</b>		100% at 35°C and 50% at 55°C (referred to the sum of the currents of a group)

<b>Cable length</b>		
- shielded	max.	100 m (328 ft.)
- unshielded	max.	60 m (197 ft.)
<b>Insulation rating</b>		to VDE 0160
<b>Rated insulation voltage (between groups)</b>		30 V
- insulation group		C
- tested with		500 V
<b>Rated insulation voltage (L+ to <math>\perp</math>)</b>		
- insulation group		C
- tested with		500 V
<b>Current consumption</b>		
- from 5 V (internal)	max.	50 mA
<b>Power loss</b>	typ.	18 W
<b>Weight</b>	approx.	0.7 kg (1.54 lb.)

The inputs and outputs are referenced under the same address (e.g. I 0.0 to I 1.7 and Q 0.0 and Q 1.7).

**Example: Connection of an actuator via the modules 482-7LF11 and 482-7LF21**

The following figure shows how an actuator is triggered via the modules 482-7LF11 and 482-7LF21. The byte address of the inputs and outputs is marked with an *x*; it corresponds to the start address of the module.

