

## A.1.2 Digital Modules

### Digital Input Module 8x24 V DC

- Safety-Related -

(6ES5 431-8FA11)

	<b>Technical Specifications</b>	
	Address designation (for ET 100U only)	8 DI
	Number of inputs Galvanic isolation - in groups of	8 yes (optocoupler) 8
	Input voltage L+	+24 V DC
	- rated value	-30 to +5 V DC
	- "0" signal	+13 to +30 V DC
	Input current at "1" signal	typ. 9 mA (at 24 V)
	Inherent delay - from "0" to "1"	typ. 3 ms
	- from "1" to "0"	typ. 3 ms
	Length of cable - unshielded	max. 200 m (660 ft.)
	Insulation rating	VDE 0160
	Rated insulation voltage (+9 V to L+)	30 V AC
	- insulation group	2xB
	- tested with	500 V AC
	Rated insulation voltage (+9 V to $\triangle$ )	12 V AC
	- insulation group	2xB
	- tested with	500 V AC
	Permissible ambient temperature of PLC	
	- horizontal arrangement	0 to 60 °C (32 to 140 °F)
	- vertical arrangement	0 to 40 °C (32 to 104 °F)
	Connection of 2-wire BERO proximity switches	possible
	- residual current	1.5 mA
	Current consumption - from +9 V (CPU)	max. 70 mA
	- from L+	max. 50 mA
	Power loss of the module	typ. 2.6 W
	Weight	approx. 210 g (7.4 oz.)