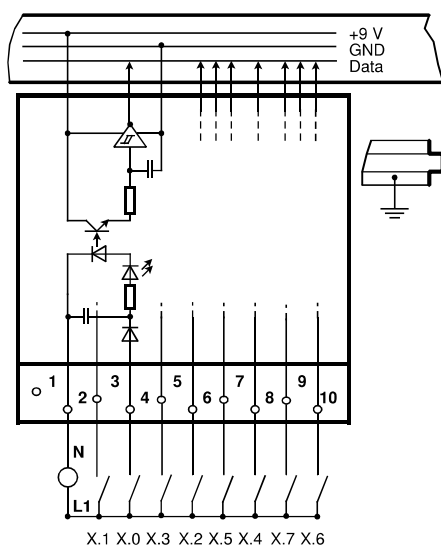
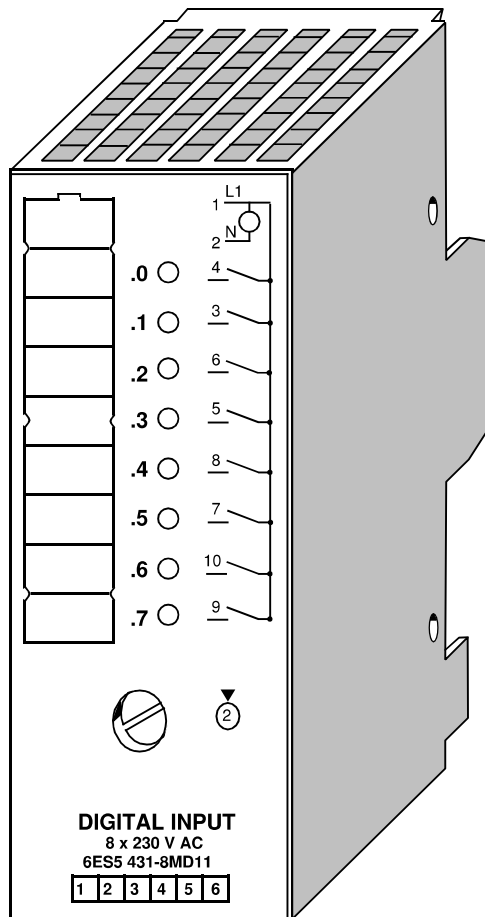


Digital Input Module 8 × 230 V AC

(6ES5 431-8MD11)



Technical specifications

Number of inputs	8
Galvanic isolation	yes (optocoupler)
- in groups of	8
Input voltage L1	
- rated value	230 V AC/DC
- "0" signal	0 to 95 V
- "1" signal	195 to 253 V
- frequency	47 to 63 Hz
Input current at "1" signal	typ. 16 mA at 230 V AC typ. 1.8 mA at 230 V DC
Inherent delay	
- from "0" to "1"	typ. 10 ms
- from "1" to "0"	typ. 20 ms
Length of cable	
- unshielded	max. 100 m (330 ft.)
Insulation rating	VDE 0160
Rated insulation voltage (+9 V to L1)	250 V AC
- insulation group	2xB
- tested with	1500 V AC
Rated insulation voltage (+9 V to $\perp$)	12 V AC
- insulation group	1xB
- tested with	500 V AC
Permissible ambient temperature of module	
- 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	5 mA
Current consumption	
- from +9 V (CPU)	typ. 32 mA
Power loss of the module	typ. 3.6 W
Weight	approx. 260 g (9 oz.)