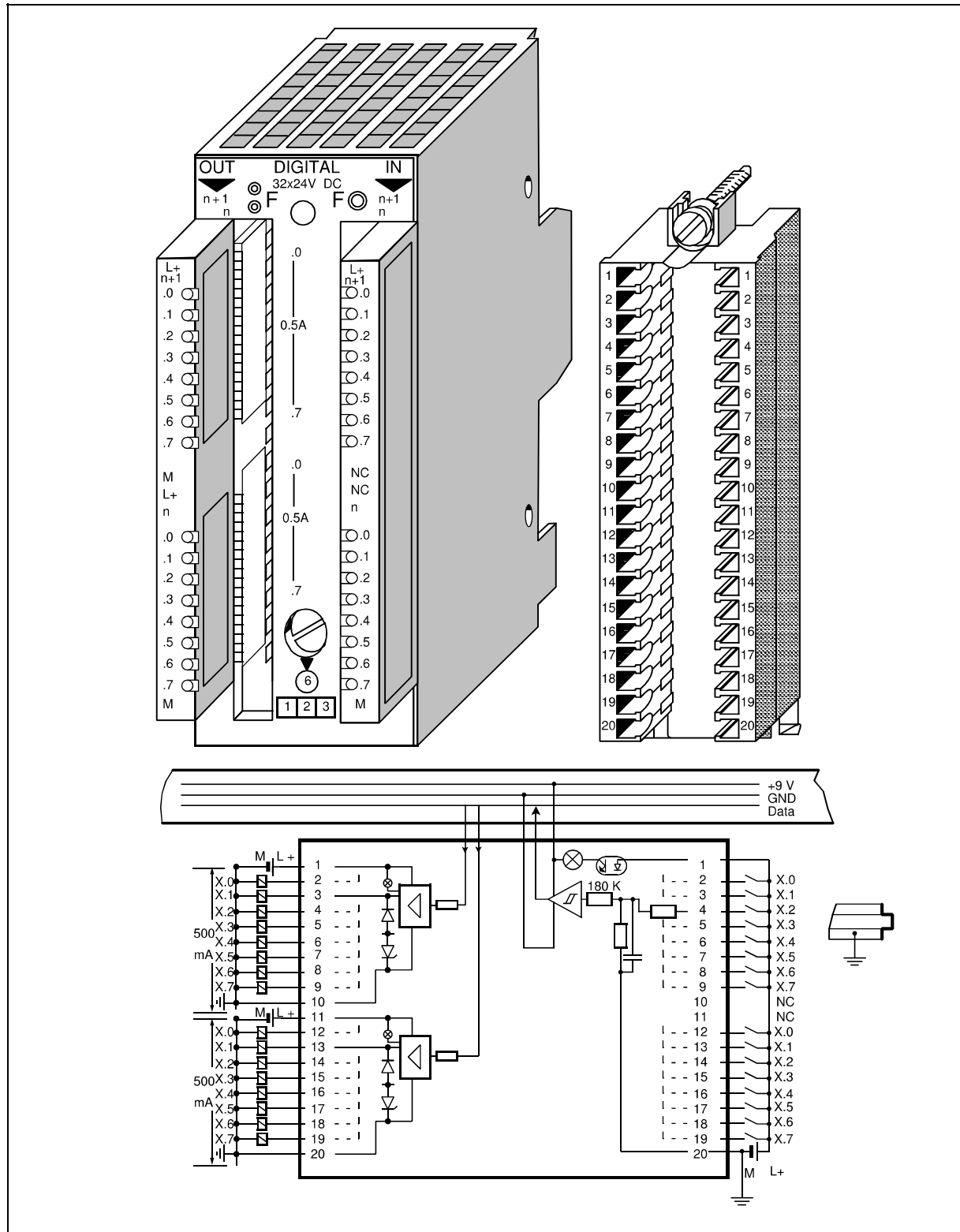


14.6.3 Digital Input/Output Modules

Digital Input/Output Module with LED Display
 Crimp Snap-in Connector, 40-pin
 Screw Plug Connector, 40-pin

(6ES5 482-8MA13)
 (6ES5 490-8MA13/-8MA03)
 (6ES5 490-8MB11)



Digital Input/Output Module with LED Display (continued)

(6ES5 482-8MA13)

Technical specifications		Output side	
Cable length - unshielded	100 m (330 ft.)	Number of outputs	16
Rated insulation voltage (+9 V to $\perp$)	12 V AC	Galvanic isolation	no
- insulation group	1 x B	- in groups of	8
Power loss of the module	typ. 4.5 W	Load voltage L+	
Weight	approx. 190 g (7 oz.)	- rated value	24 V DC
		- permissible range (ripple included)	20 to 30 V
		- value at $t < 0.5$ s	35 V
		Output current I_N for "1" signal	
		- rated value	500 mA
		- permissible range	5 to 500 mA
Input side		Residual current for "0" signal	max. 0.5 mA
Number of inputs	16	Short-circuit protection	yes
Galvanic isolation	no	Short-circuit indication	red LED
- in groups of	16	Output voltage for "1" signal	L+(- 0.6 V)
Input voltage L+		Voltage induced on circuit interruption (internal) limited to	- 15 V
- rated value	24 V DC	Switching frequency with	
- for "0" signal	0 to 5 V	- resistive load	100 Hz
- for "1" signal	13 to 30 V	- inductive load	2 Hz
Input current for "1" signal	typ. 4.5 mA	Permissible total current of the outputs	6 A
Inherent delay		Driving of a digital input	possible
- from "0" to "1"	typ. 4 ms	Paralleling of outputs	possible in pairs
- from "1" to "0"	typ. 3 ms	- maximum current	($0.8 \times I_N$)
Fault LED (red)	indicates interruption of L+/M supply	Current consumption	
Connection of two-wire BERO proximity switches	possible	- from +9 V (CPU)	typ. 10 mA
- residual current	1.5 mA	- from L+ (without load)	typ. 100 mA
Current consumption		Lamp load	max. 5 W
- from +9 V (CPU)	typ. 50 mA		