

Digital Output Module 8 x 24 V DC/1 A

(6ES5 451-8MA11)

Technical specifications		
Number of outputs	8	
Galvanic isolation	yes (optocoupler)	
- in groups of	8	
Load voltage L+	24 V DC	
- rated value	20 to 30 V	
- permissible range (including ripple)	35 V	
- value at $t < 0.5 \text{ s}$		
Output current for "1" signal	1 A	
- rated value	5 mA to 1 A	
- permissible range	max. 10 W	
- lamp load		
Residual current at "0" signal	max. 0.5 mA	
Output voltage	max. L+ (- 0.6 V)	
- at "1" signal		
Short-circuit protection	short-circuit protected output with autom. switch on when the short-circuit does not exist any more	
Fault LED (red)	short-circuit	
Voltage induced on circuit interruption (internal) limited to	-15 V	
Switching frequency		
- resistive load	max. 100 Hz	
- inductive load	max. 2 Hz	
Permissible current of all outputs	6 A	
Driving of digital input	possible	
Paralleling of 2 outputs	paarweise possible	
- maximum current	1.8 A	
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)	
Length of cable	max. 100 m (330 ft.)	
- unshielded		
Insulation rating	VDE 0160	
Rated insulation voltage (+ 9 V to L+)	24 V AC	
- insulation group	2 x B	
- tested with	500 V AC	
Rated insulation voltage (+ 9 V to \perp)	12 V AC	
- insulation group	1 x B	
- tested with	500 V AC	
Current consumption		
- from +9 V (CPU)	typ. 35 mA	
- from L+ (without load)	typ. 50 mA	
Power loss of the module	typ. 3 W	
Weight	approx. 230g (8 oz.)	