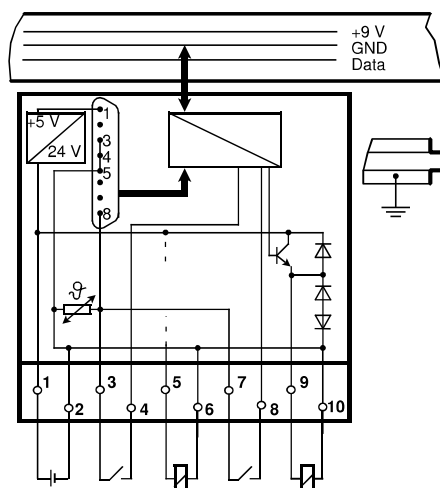
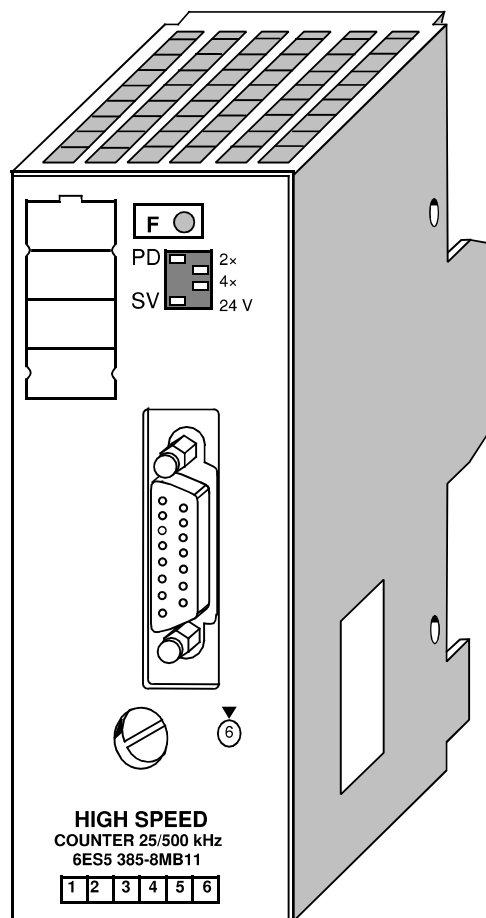


15.6 Counter Module 25/500 kHz

(6ES5 385-8MB11)



Technical Specifications			
Operating mode (switch-selectable)		Power supply for sensor	24 V from L+ (PTC thermistor)
- position decoder	PD	Output current	max. 300 mA, short-circuit proof
- counter	C		
Sensor inputs	1 sensor 5 V (differential input) or 1 sensor 24 V DC	Digital Inputs	reference and enabling
Digital inputs	2; reference and enabling	Rated input voltage	24 V DC
Digital outputs	2; setpoints reached 1 and 2	Input voltage	
Galvanic isolation	no	- "0" signal	- 33 to +5 V DC
Counting range		- "1" signal	+13 to 33 V DC
Operating mode		Rated input current for "1" signal and at 24 V	typ. 8.5 mA
- position decoder	two's complement (KF) - 32768 to +32767	Input frequency	max. 100 Hz
- counter	unipolar representation (KH) 0 to 65535	Inherent delay	typ. 3 ms (1.4 to 5 ms)
Counting mode		Cable length (unshielded)	max. 100 m (330 ft.)
- position decoder	up/down	Digital Outputs	setpoints 1 and 2
- counter	up	Output current (resistive, inductive load)	5 mA to 0.5 A
Setpoint input	via program	Residual current for "0" signal	max. 0.5 mA
5-V Sensor Input	15-pin Cannon sub-miniature D connector	Switching current for lamps	0.22 A (5 W)
Input signals	differential signals to RS 422	Limitation of inductive interrupting voltage	to -15 V
- position decoder	A A-N, B B-N, R R-N	Output voltage	
- counter	A A-N	- "1" signal	min. L+ - 2.2 V
Counting frequency	max. 500 kHz	- "0" signal	max. 3 V
Cable length (shielded)	max. 50 m (165 ft.)	Cable length (unshielded)	max. 100 m (330 ft.)
Power supply for decoder	5 V from L+ via voltage transformer	Short-circuit protection (cable impedance up to 15)	electronic
Output current	max. 300 mA, short-circuit-proof	Short-circuit indication (short-circuit to M)	red LED
24-V Sensor Input	15-pin Cannon sub-miniature D connector	Supply voltage L+	
Rated input voltage	24 V DC	- rated value	24 V DC
Input signals		- ripple V_{pp}	max. 3.6 V
- position decoder	A, B, R	- permissible range (including ripple)	20 to 30 V DC
- counter	A	Fuse (internal)	T 5 A (slow blow)
Input voltage		Current consumption	
- "0" signal	- 33 to 5 V DC	- from L+	30 mA
- "1" signal	+13 to 33 V DC	- without sensor supply	
Rated input current for "1" signal	typ. 8.5 mA	- without load	
Counting frequency	max. 25 kHz	- internal (+9 V)	70 mA
Cable length (shielded)	max. 100 m (330 ft.)	Power consumption of the module	typ. 1.9 W + total output current (I_A) × 1.1 V
		Weight	approx. 250 g (9 oz.)