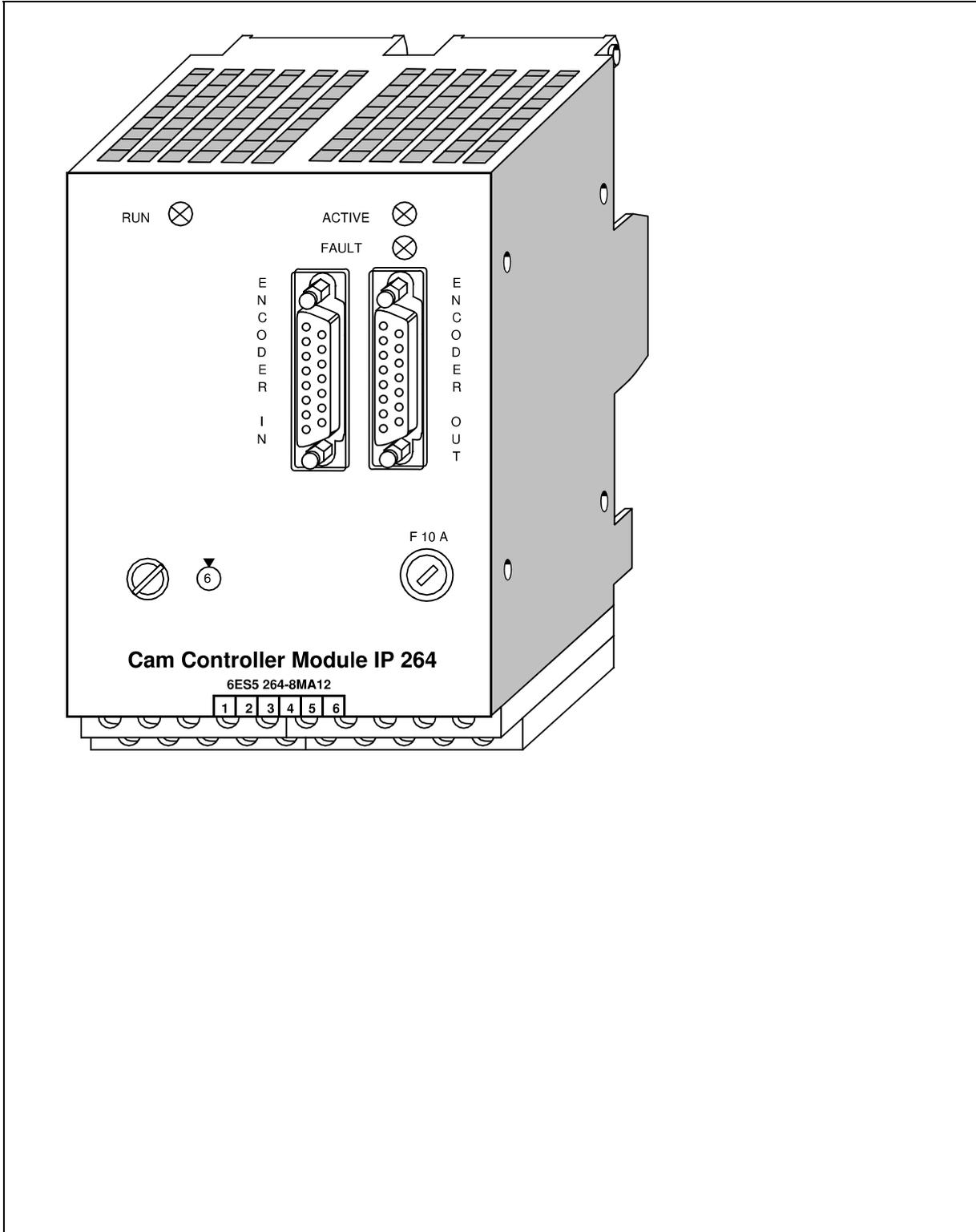


15.9 IP 264 Electronic Cam Controller Module

6ES5 264-8MA12



| Technical Specifications | | Digital Inputs | |
|--|---|--|--------------------------------|
| Encoders | | Input voltage range | -3 V to +30 V |
| Actual value sensing | incremental, absolute (SSI interface) | Galvanic isolation | no |
| Maximum traversing range | | 0 signal | -3 V to +5 V |
| - with incremental encoders | 2 ¹⁶ increments | 1 signal | +13 V to +30 V |
| - with absolute encoders | 2 ¹⁶ encoders | Permissible zero-signal current at 0 signal | 1.1 mA |
| Signal voltages | | Input current at 24 V | typ. 5 mA |
| - Differential inputs | 5 V to RS 422 | Other: If the digital inputs are used, they must always be connected to a defined potential (0 V, 24 V) and must not be kept open. | |
| - Asymmetrical inputs | 24 V (only incremental encoders) | Digital Outputs | |
| Supply voltage for encoders (short-circuit-proof, no overload) | 5 V/300 mA 24 V/300 mA | Output voltage range | +20 V to +30 V |
| Input frequency and cable length | | Galvanic isolation | no |
| Symmetrical encoders (5 V signals): | | Output current at 1 signal | max. 300 mA |
| - with 5 V encoder supply | max. 200 kHz for 32 m (105 ft.) cable, shielded | Short-circuit protection | Short-circuit-proof output |
| - with 24 V encoder supply | max. 200 kHz for 100 m (328 ft.) cable, shielded | Cable length, shielded | max. 100 m (328 ft.) |
| Asymmetrical encoders (24 V signal): | max. 100 kHz for 25 m (82 ft.) cable, shielded | Supply Voltage | |
| | max. 25 kHz for 100 m (328 ft.) cable, shielded | Logic voltage from 24 V supply produced with switched-mode power supply | 4.9 V to 5.1 V |
| Data transmission rate and cable length with absolute encoders (selectable in steps) | 125 kHz (160 m/525 ft. shielded) 250 kHz 500 kHz 1 MHz (32 m/105 ft. shielded) | Current consumption from 24 V without outputs and sensors | typ. 120 mA |
| Input signals | | Undervoltage monitoring | V _{internal} < 4.65 V |
| - Incremental | 2 pulse trains displaced by 90° 1 zero pulse | Power Loss | |
| - 24 V initiator (BERO) | 1 pulse train | typ. 4 W | |
| - SSI | Absolute value | Module Cycle Time (incl. dead-time compensation) | |
| Input currents | to RS 422 | Separate cam programs with max. 32 cams each for forwards and backwards (incl. dead-time compensation) | 57.6 μs |
| - 5 V | typ. 5 mA | "Common" cam program with max. 32/64 cams for forwards and backwards | 57.6/115.2 μs |
| - 24 V | | | |