




S7-1500, CM 8xIO-Link, communication module IO-Link Master V1.1; Front connector (screw terminals or push-in) to be ordered separately

| General information | |
|--|-----------------------------------|
| Product type designation | CM 8xIO-Link |
| HW functional status | FS05 |
| Firmware version | V1.0.2 |
| <ul style="list-style-type: none"> FW update possible | Yes |
| Product function | |
| <ul style="list-style-type: none"> I&M data | Yes; I&M0 to I&M3 |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version | V15.1 with HSP 274 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated from version | Configurable via GSD file |
| <ul style="list-style-type: none"> PROFIBUS from GSD version/GSD revision | GSD as of Revision 5 |
| <ul style="list-style-type: none"> PROFINET from GSD version/GSD revision | GSDML V2.34 |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| Input current | |
| Current consumption, max. | 50 mA; without load |
| Encoder supply | |
| Number of outputs | 8 |
| Output current | |
| <ul style="list-style-type: none"> Rated value | 1 A; 4 A total current per module |
| 24 V encoder supply | |
| <ul style="list-style-type: none"> Short-circuit protection | Yes; per channel, electronic |
| IO-Link | |
| Number of ports | 8 |
| <ul style="list-style-type: none"> of which simultaneously controllable | 8 |
| IO-Link protocol 1.0 | Yes |
| IO-Link protocol 1.1 | Yes |
| Cycle time, min. | 2 ms |
| Size of process data, input per port | 33 byte; max. |
| Size of process data, input per module | 240 byte; max. |
| Size of process data, output per port | 32 byte; max. |
| Size of process data, output per module | 240 byte; max. |
| Memory size for device parameter | 2 kbyte; for each port |
| Master backup | Yes |
| Configuration without S7-PCT | Yes |

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| Cable length unshielded, max. | 20 m |
| Operating modes | |
| • IO-Link | Yes |
| • DI | Yes |
| • DQ | No |
| Time Based IO | |
| — TIO IO-Link IN | No |
| — TIO IO-Link OUT | No |
| — TIO IO-Link IN/OUT | No |
| Connection of IO-Link devices | |
| • Port type A | Yes |
| • Port type B | Yes; 24 V DC via external terminal |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Diagnostic alarm | Yes; The port diagnosis is available in the IO-Link mode only. |
| Diagnoses | |
| • Monitoring the supply voltage | Yes |
| • Wire-break | Yes |
| • Short-circuit | Yes |
| • Group error | Yes |
| Diagnostics indication LED | |
| • Monitoring of the supply voltage (PWR-LED) | Yes; green LED |
| • Channel status display | Yes; green LED |
| • for channel diagnostics | Yes; red LED |
| • for module diagnostics | Yes; red LED |
| Potential separation | |
| Potential separation channels | |
| • between the channels | No |
| • between the channels and backplane bus | Yes |
| Isolation | |
| Isolation tested with | 707 V DC (type test) |
| Ambient conditions | |
| Ambient temperature during operation | |
| • horizontal installation, min. | -30 °C; From FS05 |
| • horizontal installation, max. | 60 °C; Observe derating |
| • vertical installation, min. | -30 °C; From FS05 |
| • vertical installation, max. | 40 °C; Observe derating |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual |
| Dimensions | |
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |
| last modified: | 2/18/2022  |