

SIPLUS ET 200SP CM 4XIO-LINK -40...+60 °C Start-up temperature: -25 °C with conformal coating based on 6ES7137-6BD00-0BA0 . CM 4 X IO-LINK ST Communication Module IO-LINK MASTER V1.1



Figure similar

General information	
Product type designation	230 RCE
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC04
Product function	
<ul style="list-style-type: none"> I&M data 	Yes
Supply voltage	
permissible range, lower limit (DC)	100 V
permissible range, upper limit (DC)	253 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	40 mA
Encoder supply	
Number of outputs	4
Output current	

• Rated value	200 mA
Digital outputs	
Cable length	
• unshielded, max.	20 m; Also applies for shielded cables
IO-Link	
Number of ports	4
• of which simultaneously controllable	4
IO-Link protocol 1.0	Yes
IO-Link protocol 1.1	Yes
Transmission rate	4.8 kBaud (COM1); 38.4 kBaud (COM2), 230.4 kBaud (COM3)
Cycle time, min.	2 ms; dynamic, depending on user data length
Size of process data, input per port	32 byte; max.
Size of process data, input per module	32 byte; max.
Size of process data, output per port	32 byte; max.
Size of process data, output per module	32 byte; max.
Memory size for device parameter	2 kbyte; for each port
Cable length unshielded, max.	20 m; max.
Operating modes	
• IO-Link	Yes
• DI	Yes
• DQ	Yes; max. 100 mA
Time Based IO	
— TIO IO-Link IN	Yes
— TIO IO-Link OUT	Yes
— TIO IO-Link IN/OUT	Yes
— TIO Jitter	36 µs; typically ±
Connection of IO-Link devices	
• Port type A	Yes
• Port type B	Yes; 24 V DC via external terminal
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes; For PROFINET only
Equidistance	Yes
Bus cycle time (TDP), min.	250 µs
Interrupts/diagnostics/status information	
Status indicator	Yes
Diagnostics function	Yes
Alarms	
• Diagnostic alarm	Yes; The port diagnosis is available in the IO-Link mode only.
Diagnostic messages	
• Monitoring the supply voltage	Yes

Diagnostics indication LED	
<ul style="list-style-type: none"> • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics 	<p>Yes; green PWR LED</p> <p>Yes; one green LED for channel status Qn (SIO mode) and port status Cn (IO-Link mode) per channel</p> <p>Yes; red Fn LED</p> <p>Yes; green/red DIAG LED</p>
Potential separation	
Potential separation channels	
<ul style="list-style-type: none"> • between the channels • between the channels and backplane bus 	<p>No</p> <p>Yes</p>
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • horizontal installation, min. • horizontal installation, max. 	<p>-40 °C; = Tmin; Startup @ -25 °C</p> <p>60 °C; = Tmax</p>
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude 	<p>3 000 m</p> <p>Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... Tmax -5K at 795 hPa ... 701 hPa (+2 000 m ... +3 000 m)</p>
Relative humidity	
<ul style="list-style-type: none"> • With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Coolants and lubricants	
— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *

— to mechanically active substances
according to EN 60721-3-6

Yes; Class 6S3 incl. sand, dust; *

from supply voltage 1L+

— Note regarding classification of
environmental conditions acc. to EN 60721

* The supplied plug covers must remain in place over the unused
interfaces during operation!

Dimensions

Width	71.5 mm
Height	90 mm
Depth	60 mm

Weights

Weight, approx.	30 g
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last modified: 05/18/2018