

8 Operating



CAUTION

Operating the device outside the specification
Slight injuries and equipment damage possible.

- ▶ Operate the unit only within the operating temperature specified in the technical data.
- ▶ Use only thermally suitable connection cables.

8.1 Process input data

Byte no.	Bit offset							
	7	6	5	4	3	2	1	0
Inputs								
0	DI8 C4P2 (B)	DI7 C4P4 (A)	DI6 C3P2 (B)	DI5 C3P4 (A)	DI4 C2P2 (B)	DI3 C2P4 (A)	DI2 C1P2 (B)	DI1 C1P4 (A)
1	DI16 C8P2 (B)	DI15 C8P4 (A)	DI14 C7P2 (B)	DI13 C7P4 (A)	DI12 C6P2 (B)	DI11 C6P4 (A)	DI10 C5P2 (B)	DI9 C5P4 (A)
Designation Meaning								
Inputs								
CxPy		0	Input inactive					
		1	Input active					



NOTE

The diagnostics can also be retrieved via IO-Link indices.

8.2 Process output data

Byte no.	Bit offset							
	7	6	5	4	3	2	1	0
Outputs								
0	DO8 C4P2 (B)	DO7 C4P4 (A)	DO6 C3P2 (B)	DO5 C3P4 (A)	DO4 C2P2 (B)	DO3 C2P4 (A)	DO2 C1P2 (B)	DO1 C1P4 (A)
1	DO16 C8P2 (B)	DO15 C8P4 (A)	DO14 C7P2 (B)	DO13 C7P4 (A)	DO12 C6P2 (B)	DO11 C6P4 (A)	DO10 C5P2 (B)	DO9 C5P4 (A)
Designation Meaning								
CxPy		0	Output inactive					
		1	Output active					

8.4 Evaluating diagnostic data

Group diagnostics: Undervoltage power supply and overcurrent sensor supply – 0x50 (80), sub index 0

The group diagnosis indicates errors in the module and sensor supply:

- Group diagnostics: Diagnostics pending at the module
- Undervoltage supply (per module)
- Overvoltage supply (per module)
- Overcurrent sensor supply (per connector)

0 = no diagnostics

1 = diagnostic message pending

Byte 0							
Bit offset							
15	14	13	12	11	10	9	8
Sub index							
-	-	-	-	-	1	-	2
Group diagnostics	-	-	-		Undervoltage supply	-	Overvoltage supply

Byte 1							
Bit offset							
7	6	5	4	3	2	1	0
Sub index							
3	4	5	6	7	8	9	10
Over-current VAUX C8	Over-current VAUX C7	Over-current VAUX C6	Over-current VAUX C5	Over-current VAUX C4	Over-current VAUX C3	Over-current VAUX C2	Over-current VAUX C1

Overcurrent output – 0x51 (81), sub index 0

The diagnosis indicates an overcurrent at the corresponding digital output.

0 = no diagnostics

1 = overcurrent at the output

Bit offset															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Sub index															
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
C5P4 (A)	C5P2 (B)	C6P4 (A)	C6P2 (B)	C1P4 (A)	C7P2 (B)	C8P4 (A)	C8P2 (B)	C1P4 (A)	C1P2 (B)	C2P4 (A)	C2P2 (B)	C3P4 (A)	C3P2 (B)	C4P4 (A)	C4P2 (B)