



SIMATIC DP, electronic module for ET 200pro 4 IO-Link High Feature, Channel diagnostics, including bus module, Connection module IO 6ES7194-4CA20-0AA0 order separately

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Load voltage 2L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Short-circuit protection 	Yes
<ul style="list-style-type: none"> Reverse polarity protection 	Yes; against destruction; load increasing
Input current	
from supply voltage 1L+, max.	40 mA
from load voltage 2L+ (without load), max.	20 mA
from backplane bus 3.3 V DC, max.	20 mA
Encoder supply	
Number of outputs	4
Short-circuit protection	Yes; per module, electronic
Output current	
<ul style="list-style-type: none"> up to 55 °C, max. 	2 A
Power loss	
Power loss, typ.	2.6 W
IO-Link	
Number of ports	4
<ul style="list-style-type: none"> 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)
Size of process data, input per port	32 byte
Size of process data, input per module	32 byte
Size of process data, output per port	32 byte
Size of process data, output per module	32 byte
Memory size for device parameter	2 kbyte; for each port
Master backup	Possible with function block IO_LINK_MASTER
Configuration without S7-PCT	Possible; autostart/manual function
Cable length unshielded, max.	20 m
Operating modes	
<ul style="list-style-type: none"> IO-Link 	Yes
<ul style="list-style-type: none"> DI 	Yes
<ul style="list-style-type: none"> DQ 	Yes; max. 100 mA
Connection of IO-Link devices	
<ul style="list-style-type: none"> Port type A 	Yes; via 3-core cable
<ul style="list-style-type: none"> Port type B 	Yes; Additional device supply: for X1 and X2 max. 2 A in total, for X3

and X4 max. 2 A in total

Interrupts/diagnostics/status information

Diagnostics function Yes

Alarms

• Diagnostic alarm Yes

Diagnoses

• Diagnostic information readable Yes

• Wire-break Yes; channel by channel

• Short-circuit Yes; channel by channel

Diagnostics indication LED

• Channel status display Yes; One green LED for channel status Qn (SIO mode) and port status IO-Ln (IO-Link mode)

• Group error SF (red) Yes

• Channel fault indicator F (red) Yes; combined with the IO-Link port status

Potential separation

between the load voltages Yes

between backplane bus and all other circuit components Yes

Potential separation channels

• between the channels No

Isolation

Isolation tested with 707 V DC (type test)

Degree and class of protection

IP degree of protection IP65/67

Standards, approvals, certificates

Suitable for safety-related tripping of standard modules No

Dimensions

Width 45 mm

Height 130 mm

Depth 35 mm

Weights

Weight, approx. 150 g

last modified: 1/16/2021 