

SIMATIC DP, PNEUMATIC INTERFACE FOR ET 200PRO 16 DO
PNEUMATIC FOR COUPLING WITH FESTO VALVE BLOCK CPV-
14 INCLUSIVE BUS MODULE



Supply voltage	
Load voltage 2L+	
• Rated value (DC)	24 V
• Short-circuit protection	Yes
• Reverse polarity protection	Yes
Input current	
from load voltage 2L+ (including valve), max.	370 mA
from backplane bus 3.3 V DC, max.	25 mA
Power loss	
Power loss, typ.	3.7 W
Address area	
Address space per module	
• without packing	2 byte
Digital outputs	
Number of digital outputs	16
Load resistance range	
• lower limit	500 Ω

• upper limit	2 500 Ω
Output current	
• for signal "1" rated value	16 mA
Switching frequency	
• with inductive load, max.	20 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 55 °C, max.	330 mA; only up to 50 °C, limited by valves
Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
Pneumatics	
permissible working pressure, min.	3 bar
permissible working pressure, max.	8 bar
Rated flow rate	800 l/min
Number of connectable valves, max.	16
Parameter	
Remark	Diagnosis load voltage 2L+
Potential separation	
between backplane bus and all other circuit components	Yes
Potential separation digital outputs	
• between the channels and backplane bus	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety-oriented group deactivation	Yes
Highest safety class achievable in safety mode	
• Performance level according to ISO 13849-1	d
• SIL acc. to IEC 61508	2
Dimensions	
Width	120 mm
Height	152 mm
Depth	47 mm

last modified:

10/28/2016