

SIEMENS

Product data sheet

6ES7132-7GD21-0AB0


SIMATIC DP,
ELECT. SUBMODULE FOR ET 200ISP, 4 DO,
DC 17.4V/40MA, "L"-SHUT DOWN

Input current	
from load voltage L+ (without load), max.	400 mA
Power losses	
Power loss, typ.	2.8 W
Address area	
Address space per module	
without packing	2 byte
Digital inputs	
Cable length	
Cable length, shielded, max.	20 m
Cable length unshielded, max.	20 m
Digital outputs	
Number/binary outputs	4 ; additionally 1 intrinsically-safe input for L shutdown
Functionality/short-circuit strength	Yes
No-load voltage U _{ao} (DC)	17.4 V

Internal resistor Ri	167 Ω
Trend key points E	
Voltage Ue (DC)	10.7 V
Current Ie	40 mA
Output delay with resistive load	
"0" to "1", max.	2 ms
"1" to "0", max.	1.5 ms
Parallel switching of 2 outputs	
for increased power	Yes
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	2 Hz
Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	500 m
Interrupts/diagnostics/status information	
Status indicator	Yes
Substitute values connectable	Yes
Alarms	
Alarms	No
Diagnostic alarm	Yes ; Parameterizable
Diagnostic messages	
Diagnostic information readable	Yes
Wire break	Yes ; $R > 10 \text{ kohms}$, $I < 100 \mu\text{A}$
Short circuit	Yes ; $R < 80 \text{ Ohm}$ (one output), $R < 40 \text{ Ohm}$ (outputs connected in parallel)
Diagnostics indication LED	
Group error SF (red)	Yes
Status indicator digital output (green)	Yes ; Per channel
Parameter	
Diagnosis: wire break	Yes
Diagnosis: short circuit	Yes
Behavior on CPU/Master STOP, channel-wise	Substitute a value/keep last value
Ex(i) characteristics	

Max. values of output circuits (per channel)	
Co (permissible external capacity), max.	241 nF ; For IIC, 1507 nF for IIB
Io (short-circuit current), max.	118 mA
Lo (permissible external inductivity), max.	1.7 mH ; For IIC, 10.4 mH for IIB
Po (power of load), max.	572 mW
Uo (output no-load voltage), max.	19.4 V
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	Yes
Permissible potential difference	
between different circuits	60V DC/30V AC
Standards, approvals, certificates	
CE mark	Yes
Use in hazardous areas	
Type of protection acc. to EN 50020 (CENELEC)	II 2 G (1) GD and I M2 Ex ib[ia][iaD] IIC T4; Ex ib [ia] I
Type of protection acc. to KEMA	04 ATEX 1249
Dimensions	
Width	30 mm
Height	129 mm
Depth	136.5 mm
Weight	
Weight, approx.	255 g
Status	Jul 17, 2012