



SIPLUS ET200S EM 4DO STANDARD -25 ... +70
DEGREES C WITH CONFORMAL COATING BASED ON
6ES7132-4BD02-0AA0 . ELECTRONIC MODULE 24V/0.5A
DC WIDTH: 15MM 5 PIECES PER PACKAGING UNIT

Supply voltage	
Reverse voltage protection	Yes ; when using the same load voltage as on the power module
Load voltage L+	
Rated value (DC)	24 V ; From power module
Reverse polarity protection	Yes ; polarity reversal can lead to the digital outputs being connected through
Input current	
from load voltage L+ (without load), max.	10 mA ; Per channel
from backplane bus 3.3 V DC, max.	10 mA
Power losses	
Power loss, typ.	0.8 W
Address area	
Address space per module	
with packing	4 bit
without packing	1 byte
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes
Response threshold, typ.	1 to 1.5 A

Limitation of inductive shutdown voltage to	(L+) -55 to -60 V
Controlling a digital input	Yes
Switching capacity of the outputs	
Lamp load, max.	5 W
Load resistance range	
lower limit	48 Ω
upper limit	3400 Ω
Output voltage	
for signal "1", min.	L+ (-1 V)
Output current	
for signal "1" rated value	0.5 A
for signal "1" permissible range for 0 to 60 °C, min.	7 mA
for signal "1" permissible range for 0 to 60 °C, max.	600 mA
for signal "0" residual current, max.	0.3 mA
Output delay with resistive load	
"0" to "1", max.	45 μ s ; Typical value
"1" to "0", max.	90 μ s ; Typical value
Parallel switching of 2 outputs	
for increased power	No
for redundant control of a load	Yes ; per module
Switching frequency	
with resistive load, max.	800 Hz
with inductive load, max.	2 Hz
on lamp load, max.	10 Hz
Aggregate current of outputs (per group)	
all mounting positions	
up to 60 °C, max.	2 A
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic functions	No
Diagnostics indication LED	
Status indicator digital output (green)	Yes
Parameter	

Remark	1 byte
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	No
between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	500 V DC
Ambient conditions	
Extended ambient conditions	
Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
With condensation, tested in accordance with IEC 60068-2-38, maximum	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with EN 60721-3-3	Yes ; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
to mechanically active substances/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
Min.	-25 °C ; = Tmin
max.	70 °C ; = Tmax
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g
Status	Jun 16, 2014