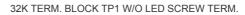
## **SIEMENS**

## **Data sheet**



Connection module TP1 32 channels a. 4x2 terminals f. Potential supply Type: Screw terminal without LED, VPE=1 unit 50 pole IDC connector f. cable



target system	SIMATIC S7-1500
suitability for use	Digital I/O modules
product type designation	Fully modular connection
product designation	Connection module
electrical data	
operating voltage	
at DC / rated value	24 V
rated value	50 V
• at DC / maximum	50 V
ampacity / per pin / maximum	1 A
continuous current / at DC / per signal cable / maximum	1 A
total current / maximum	2 A
product function / infeed function	Yes
product component	
PE connection	No
<ul> <li>shield connection</li> </ul>	No
• disconnector	No
product feature / cross-connectable	No
connection method	
number of terminals	48; 32 x I/O; 8 x L+, 8 x M
number of channels	32
type of connecting terminal	Screw-type terminal
position / of the terminal	Тор
number of terminal levels	1
design of terminal / terminal levels internally linked	No
type of electrical connection / for connecting cable	Plug-in connection
number of poles / at the 1st interface	50; IDC connector with installed strain relief for the connecting cable
number of the plug contacts / of the electrical connection	1
wire length / maximum	30 m; between front connector module and Connection module
type of connectable conductor cross-sections / solid	No
connectable conductor cross-section	
<ul> <li>for flexible conductor / with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup> ; End sleeve according to DIN 46228/1
• stranded	0.5 2.5 mm²
<ul> <li>finely stranded / with core end processing</li> </ul>	0.5 2.5 mm²
number of cables / per connection	2; Connection for internal system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule.
width of screwdriver blade	3.5 mm
tightening torque	0.4 0.5 N·m
standards, specifications, approvals	
certificate of suitability	

<ul> <li>cULus approval</li> </ul>	Yes			
• IECEx	Yes			
• ATEX	Yes			
ULhazloc approval	Yes			
• UKEX	Yes			
<ul> <li>CCC / for hazardous zone according to GB standard</li> </ul>	Yes			
design tested acc. to type of protection / EEx e	Yes			
overvoltage category	2			
degree of pollution	2			
combustibility class according to UL 94	V1			
standards, specifications, approvals / Environmental Product	Declaration			
Environmental Product Declaration	Yes			
global warming potential [CO2 eq]				
• total	90.3 kg			
during manufacturing	2.5 kg			
<ul><li>during operation</li></ul>	87.5 kg			
after end of life	0.23 kg			
ambient conditions				
ambient temperature				
during operation	0 60 °C			
during storage	-40 +70 °C			
mechanical data				
width × height × depth	100 mm × 76 mm × 60 mm			
mounting type	DIN rail 35 mm, DIN rail 15 mm			
mounting position	any			
height / with lowest-profile installation	60 mm			
net weight	0.31 kg			
insulation material	other			
color				
of the enclosure	grey			
of the light source	without			
product component / required / end cover plate	No			
further information / internet links	110			
internet link				
to website: Industry Mall	https://mall.industry.siemens.co	am		
to website. Industry Wall     to web page: selection aid TIA Selection Tool				
to web page: selection and the Selection roof     to web page: system cabling		https://www.siemens.com/tstcloud		
to web page. system cabling     to website: CAx-Download-Manager	https://siemens.com/cax	https://siemens.com/simatic-top-connect		
to website: CAX-Download-Manager     to website: Industry Online Support	https://support.industry.siemens	- 00m		
	intps://support.industry.siemens	<u>s.com</u>		
additional information	Considerations at the district	tage and ambigut town	enturo 125 °C (miles	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)			
marketing text		r a 1-wire connection with	32 channels and a	
mandaling toxe	potential connection with screw	The TP1 connection module for a 1-wire connection with 32 channels and a potential connection with screw terminals without LED for signalling forms the		
	interface between the connection cables of the peripherals coming from the field and the SIMATIC S7. This is mounted on the DIN rail and is exactly			
	adapted to the respective task	adapted to the respective task thanks to its functionality with screw terminals.  This connection module is part of the fully modular SIMATIC TOP connect connection for the fastest and safest system cabling. In addition to low wiring		
	costs, error sources in cabling of			
	actuators from the peripherals a	are combined with the cor	nnection modules of	
	SIMATIC TOP connect and cor and front plug-in module.	medied to the SIMATIC S	7-300/1500 via cable	
Classifications	1.0			
		Version	Classification	
	eClass	14	27-25-01-12	
	eClass	12	27-14-11-28	
	eClass	9.1	27-14-11-28	
	eClass	9	27-14-11-28	
		8		
	eClass	0	27-14-11-28	

27-14-11-28

27-14-11-28

7.1

eClass eClass

ETIM	9	EC000900
ETIM	8	EC000900
ETIM	7	EC000900
UNSPSC	15	39-12-14-10

Approvals / Certificates

**General Product Approval** other



Confirmation







Confirmation

Environment

Environmental Con-firmations

last modified:

1/24/2025

