



Figure similar

32K TERM. BLOCK TP1 W. LED SCREW TERM.

Connection module TP1 32 channels a. 4x2 terminals f. Potential supply Type: Screw terminal with 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	24 V
• at DC / maximum	28.8 V
ampacity / per pin / maximum	1 A
continuous current / at DC / per signal cable / maximum	1 A
total current / maximum	2 A
display version / as status display of the inputs/outputs	LED yellow for "active high"
display version / for power supply / power LED	Yes; green for 24 V DC O.K.
product component / PE connection	No
product component / shield connection	No
product component / disconnecter	No
product function / infeed function	Yes
product feature / cross-connectable	No
connection method	
number of terminals	40; 32 x I/O; 8 x L+, 8 x M
number of channels	32
number of terminal levels	1
type of connecting terminal	Screw-type terminal
position / of the terminal	Top
type of electrical connection / for connecting cable	Plug-in connection
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.
design of terminal / terminal levels internally linked	No
type of connectable conductor cross-sections / solid	No
connectable conductor cross-section	
• for flexible conductor / with core end processing	0.5 ... 2.5 mm ² ; End sleeve according to DIN 46228/1
• stranded	0.5 ... 2.5 mm ²
• finely stranded / with core end processing	0.5 ... 2.5 mm ²
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
width of screwdriver blade	3.5 mm
tightening torque	0.4 ... 0.5 N·m

standards, specifications, approvals			
certificate of suitability			
• cULus approval	Yes		
• IECEX	Yes		
• ATEX	Yes		
• ULhazloc approval	Yes		
• UKEX	Yes		
• CCC / for hazardous zone according to GB standard	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	142.2 kg		
• during manufacturing	2.5 kg		
• during operation	139.5 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	other		
product component / required / end cover plate	No		
further information / internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com		
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud		
• to web page: system cabling	https://siemens.com/simatic-top-connect		
• to website: CAX-Download-Manager	https://siemens.com/cax		
• to website: Industry Online Support	https://support.industry.siemens.com		
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)		
marketing text	The TP1 connection module for a 1-wire connection with 32 channels and potential connection with screw terminals with LED for signalling forms the interface between the connecting cables of the peripherals brought in from the field and the SIMATIC S7. This is mounted on the DIN rail and is exactly 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 can be significantly reduced. Sensors and actuators from the peripherals are combined with the connection modules of SIMATIC TOP connect and connected to the SIMATIC S7-300/1500 via cable and front plug-in module.		
Classifications			
		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
	eClass	8	27-14-11-28

eClass	7.1	27-14-11-28
eClass	6	27-14-11-28
ETIM	9	EC000900
ETIM	8	EC000900
ETIM	7	EC000900
UNSPSC	15	39-12-14-10

Approvals / Certificates

General Product Approval	For use in hazardous locations
--------------------------	--------------------------------

[Declaration of Con-
formity](#) [Manufacturer Declara-
tion](#)



For use in hazardous locations	Environment
--------------------------------	-------------

[CCC-Ex](#)



last modified: 1/18/2025