



Figure similar

32K CONNECT. MOD. TP1 M-SIGNAL LED SCREW

Connection module TP1 M signal 32 channels a. 4x2 terminals f. Potential supply
Type: Screw terminal with LED, VPE = 1 unit 50 pole IDC connector f. cable

Technical Product Detail Page	https://i.siemens.com/1P6ES7924-2AM20-0BA0
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"
• for power supply / power LED	Yes; green for 24 V DC O.K.
product function / infeed function	Yes
product component	
• PE connection	No
• shield connection	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	Top
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	
• 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 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		
• 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	141.3 kg	
• during manufacturing	1.7 kg	
• during operation	139.5 kg	
• after end of life	0.16 kg	
ambient conditions		
ambient temperature		
• during operation	-30 ... +60 °C	
• during storage	-40 ... +70 °C	
mechanical data		
width x height x depth	100 mm x 76 mm x 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		
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 M Signal with 32 channels and a potential connection with screw terminals with LED for signaling 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 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 S-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	10	EC000900
ETIM	9	EC000900
ETIM	8	EC000900
ETIM	7	EC000900
UNSPSC	15	39-12-14-10

Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)

[China RoHS](#)



For use in hazardous locations

[CCC-Ex](#)



Environment

last modified: 11/14/2025