SIEMENS

Data sheet



Figure similar

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

Connection module TP1 DI-M read 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"	
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	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		
• 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 mm²	
 finely stranded / with core end processing 	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	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	V1		
standards, specifications, approvals / Environmental Product Do	eclaration			
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	10 170 0			
width × height × depth	100 mm × 76 mm × 60 mm			
mounting type	DIN rail 35 mm, DIN rail 15 mm			
mounting type mounting position	any			
height / with lowest-profile installation	60 mm			
net weight				
insulation material	0.31 kg other			
color	Other			
of the enclosure	grov			
of the light source	grey			
product component / required / end cover plate	other No			
further information / internet links	140			
internet link				
	https://www.industry.sis.wasaa			
to website: Industry Mall	https://mail.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			4 07.00 / 1	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)			
marketing text	otherwise specified) The TP1 connection module DI-M reading with 32 channels and potential connection with screw terminals with LED for signaling 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, thanks to its functionality with screw terminals, is precisely adapted to the respective task. This connection module is part of the fully modular SIMATIC TOP connect 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 S7-1500 via cable and front plug-in module.			
Classifications				
		Version	Classification	
	eClass	14	27-25-01-12	
	eClass	12	27-14-11-28	
	00.000			
	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

For use in hazardous locations

Manufacturer Declara-tion









CCC-Ex

For use in hazardous locations

Environment





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4/9/2025

