SIEMENS

Data sheet 6ES7924-0BG20-0BA0

CONNECT. MOD. TPRI 110V SCREW TERM.

Connection module TPRI with relay 110 V AC, Output 8 NO contacts 24V DC/0.05 A Type: Screw terminal with LED, VPE=1 unit 16 pole IDC connector f. cable



Technical Product Detail Page	https://i.siemens.com/1P6ES7924-0BG20-0BA0
target system	SIMATIC S7-300 / 1500
suitability for use	Digital input module
product type designation	Fully modular connection
product designation	Connection module
electrical data	
operating voltage	
● at AC / rated value	110 V; for coil
ampacity / per pin / maximum	1 A
continuous current / at DC / per signal cable / maximum	0.05 A
switching capacity current / of the contacts / with resistive load / maximum	0.05 A; for 24V AC; recommended minimal load larger than 5mA
relay design	For input signals
type of switching contact	Single contact, NO contact
number of relay outputs	8
operating frequency / maximum	8.33 1/s
mechanical service life (operating cycles) / typical	10 000 000
electrical endurance (operating cycles) / typical	3 000 000; for AC 230 V/50 mA/Cos phi = 1
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
● protective wiring	No
product feature / cross-connectable	No
connection method	
number of terminals	20; 8 x I x 2; 2 x L+, 2 x M
number of channels	8
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	16; 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

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type of connectable conductor cross-sections / solid	No
connectable conductor cross-section	
● for flexible conductor / with core end processing	0.5 ... 2.5 mm²; 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
standards, specifications, approvals	
certificate of suitability	
● cULus approval	Yes
design tested acc. to type of protection / EEx e	No
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	282 kg
● during manufacturing	2.8 kg
● during operation	278.9 kg
● after end of life	0.26 kg
ambient conditions	
ambient temperature	
● during operation	0 ... 60 °C
● during storage	-40 ... +70 °C
mechanical data	
width × height × depth	130 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	0.36 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 TPRi relay connection module with relays for connecting 8 digital input signals (110VAC) and potential feed terminals (24VDC). For potential matching to 24VDC input signal. With screw terminals and LED for signalling, it 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, thanks to its functionality with screw terminals, is exactly adapted to the respective task. 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

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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	39-12-23-31

Approvals / Certificates

General Product Approval

Manufacturer Declaration

China RoHS

EMV

Environment

last modified: 11/14/2025

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