

Unmanaged SWITCH PROmesh U5

Item no.: 114110120

The PROmesh U5 is an unmanaged industrial Ethernet switch for industrial automation systems.

The compact design, simple mounting on the top-hat rail and its optimized thermal properties save you space in the control cabinet.

You can easily and conveniently integrate it into your existing network.

Can be used for all Ethernet-based networks, including PROFINET (Conformance Class A).



HIGHLIGHTS

Industrial application:



- PROFINET (CC-A)

High Performance:



- Transfer rates up to 100 Mbit/s
- DIP switches for additional functions

Unmanaged SWITCH PROmesh U5 | Technical Details

Network interfaces	
RJ45 Ports	
Interfaces	5 (designation P1 – P5)
Transmission rates	10 Mbit/s 100 Mbit/s
Status LED	Link + data exchange
Further device interfaces	
Status LED	VDC
DIP switch	Yes
Supply voltage, current consumption, power loss, alarm contact	
Connections	
Power supply	2 x 0,2 – 2,5 mm ²
Functional earthing (FE)	1 x 0,2 – 2,5 mm ²
Operating parameters	
Supply voltage (nominal value)	24 VDC
Supply voltage (min.)	12 VDC
Supply voltage (max.)	48 VDC
Current consumption (max.)	0,09 A
Power loss (max.)	1 W
Fuse protection (supply voltage input)	2 A/ 125 VDC
Design, dimensions, weight	
Design	Compact
Material (housing)	Metal
Mounting	Top hat rail
Width	28 mm
Height	103 mm
Depth	78 mm
Installation distance (vertical)	20 mm
Installation distance (horizontal)	20 mm
Weight (net)	170 g

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Environmental conditions	
Operating temperature	-40 – 75°C
Storage temperature	-40 – 85°C
Humidity, rel.	5 – 95% non-condensing
Protection class	IP40
Functions	
Basic parameters	
Switching technology	Store-and-Forward
MAC address table	2 k
Switch memory	1 Mbit
Backplane capacity	1 Gbit/s
Throughput	0,74 Mpps
MTBF	24 Years
DIP switch	
Loop Detection	Set the switch to "ON" to detect logical rings.
Current suppression	Set the switch to "ON" to limit the effects of network storms.
One-Key VLAN	Set the switch to "ON" to logically separate the ports from each other. Only port 1 can send to all other ports and also receive data from them.
Flow control	Set the switch to "ON" so that the switch sends the information to the connected devices that they should temporarily stop transmitting as soon as it is heavily loaded.
Applications	
PROFINET	
Conformity class	A
Standards, guidelines, approvals	
EMC	
Guideline	2014/30/EU
Interference emission	EN 55032
Interference immunity	EN 61000-6-2
Mechanical stability	
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Approval	
Europe	CE
USA	UL
Canada	CSA
Environment	
RoHS	2011/65/EU
REACH	1907/2006/EG
FCC	
Overvoltage protection	IEC 6100045, Level 3
EFT	IEC 6100044

Unmanaged SWITCH PR0mesh U5 | Technical Drawing

