



## RH1-TP

Industrial Networking:Industrial Ethernet:Rail Family:Rail Hubs

### Product description

Description	Industrial ETHERNET Rail Hub, Ethernet (10 Mbit/s)
Port type and quantity	4 x 10BASE-T, TP cable, RJ45 sockets
Type	RH1-TP
Order No.	943 639-002

### More Interfaces

Power supply/signaling contact	1 plug-in terminal block, 5-pin
--------------------------------	---------------------------------

### Network size - length of cable

Twisted pair (TP)	0 - 100 m
-------------------	-----------

### Network size - cascability

Propagation equivalent	TP port <-> TP port: 190 m
Path variability value	TP port <-> TP port: 4 BT

### Power requirements

Operating voltage	24 V DC (-25% to +30%)
Current consumption at 24 V DC	max. 130 mA

### Service

Diagnostics	LEDs (power, data, link status), signal contact/Fault relays (24 V DC / 1 A)
-------------	---------------------------------------------------------------------------------

### Redundancy

Redundancy functions	redundant 24 V power supply
----------------------	-----------------------------

### Ambient conditions

Operating temperature	0 °C to +60 °C
Storage/transport temperature	-25 °C to +70 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	159.7 years; MIL-HDBK 217F: Gb 25 °C

### Mechanical construction

Dimensions (W x H x D)	40 mm x 125 mm x 80 mm
Mounting	DIN Rail 35 mm
Weight	530 g
Protection class	IP 30

### Mechanical stability

IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	1 mm, 2 Hz - 13.2 Hz, 90 min.; 0.7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.

### EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 conducted immunity	3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)

### EMC emitted immunity

FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A

### Approvals

Safety of industrial control equipment	cUL 508 (E175531)
Hazardous locations	cUL 1604 Class 1 Div 2 (E203960)

Safety of information technology equipment	cUL 60950 (E168643)
FM 3611 Class 1 Div 2	FM 3611 Class 1 Div 2 (3012523)
FM 3810	FM 3810 (3012523)
Germanischer Lloyd	Germanischer Lloyd (15 662 - 00 HH)
<b>Scope of delivery and accessories</b>	
Scope of delivery	device, terminal block, operating manual
Accessories to order separately	rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, 19" installation frame