

PVA-4R24 Router

PAVIRO



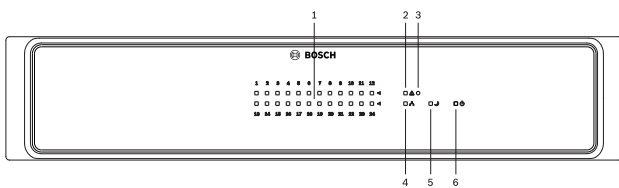
- ▶ Expansion of PAVIRO system by 24 zones
- ▶ Total 4000 W speaker load, max 500W per zone
- ▶ 20 GPI, 24 GPO and 2 control relays
- ▶ Up to 20 routers per controller
- ▶ EN 54-16 system certification

The PVA-4R24 24 Zone Router is a zone extension for the PAVIRO system. It adds 24 zones, 20 GPIs, 24 GPOs and 2 control relays to the system and is controlled and supervised via the CAN bus by the PVA-4CR12 (Controller).

Up to 20 routers can be connected to one controller. One router can handle up to 4000 W speaker load. The maximum load of one zone is 500 W. The zone indicator lights on the front indicate the current status of every zone:

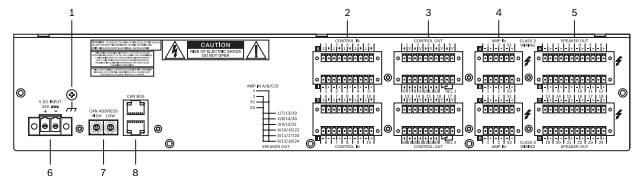
- Green: Zone in use for non emergency purpose
- Red: Zone in use for emergency purpose
- Yellow: Zone fault detected
- Off: Zone in idle condition

System overview



- 1 Zone status indicator light
- 2 Combined fault warning indicator light
- 3 Recessed button
- 4 Network indicator light

- 5 Standby indicator light
- 6 Power indicator light



- 1 Grounding screw
- 2 CONTROL IN ports
- 3 CONTROL OUT ports
- 4 AMP IN ports
- 5 SPEAKER OUT ports
- 6 DC power input
- 7 CAN ADDRESS selector switch
- 8 CAN BUS port

Certifications and approvals

Emergency standard certifications

Europe	EN 54-16
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Emergency standard compliance

UK	BS 5839-8
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Austria	ÖNORM F 3033
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Environmental directive compliance

Safety	EN 62368-1
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Immunity	EN 50130-4
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Emissions	EN 61000-6-3 ICES-003 FCC-47 part 15B class A
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Environment	EN 50581
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Maritime	EN 60945
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Conformity

Europe	CE/CPR
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USA	FCC
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Canada	ICES
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Australia	RCM
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Korea	KCC
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Russian Federation	EAC
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Environment	RoHS
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Parts included

Quantity	Component
1	PVA-4R24 Router
1	Set of connectors
1	Set of feet
1	Installation manual
1	Important safety instructions

Technical specifications

Electrical

Audio inputs (100 V)	AMP IN: 4 x 6-pin port
• Max. voltage	120 V _{eff}
• Max. current	7.2 A
• Max. power	500 W
Audio outputs (100 V)	SPEAKER OUT: 4 x 12-pin port
• Max. voltage	120 V _{eff}
• Max. current	7.2 A
• Max. power	500 W
CONTROL IN	4 x 10-pin port
• Control inputs	<ul style="list-style-type: none"> 10 supervised inputs (0-24 V, U_{max} = 32 V) 10 isolated inputs (Low: U ≤ 5 V DC; High: U ≥ 10 V DC, U_{max} = 32 V)
CONTROL OUT	4 x 10-pin port
• Control outputs	24 Low Power outputs (open collector, U _{max} = 32 V, I _{max} = 40 mA)
• Control relay	2 (NO/NC relay contacts, U _{max} = 32 V, I _{max} = 1 A)
Interfaces	
• CAN BUS port	2 x RJ-45, 10 to 500 kbit/s (for controller, router, amplifier connection)
DC power input	21-32 V DC
Power consumption	5-60W
Maximum supply current (24 V)	
• Standby	• < 250 mA
• Idle/announcement/alert	• < 800 mA
Environmental	
Operating temperature	-5 °C to +45 °C (+23 °F to +113 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Humidity (non-condensing)	5% to 90%

Altitude	Up to 2000 m
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Mechanical

Dimensions (HxWxD)	88 mm x 483 mm x 391 mm
Weight (net)	8.2 kg
Mouting	Standalone; 19 in. rack
Color	Black with silver

Ordering information

PVA-4R24 Router

24-zone expansion unit for PAVIRO system, 2 RU
Order number **PVA-4R24 | F.01U.396.303 F.01U.298.640**

Services

EWE-PVORTR-IW 12 mths wrty ext. PAVIRO Router
12 months warranty extension
Order number **EWE-PVORTR-IW | F.01U.360.719**

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