

## M12 SENSOR DISTRIBUTION BOX

# VXT-JB-M12-04D-05M

4-Port Dual Channel · PNP · 5 m PVC Cable

4 Ports · Dual Channel

M12 A-Coded, 5-Pin

A passive sensor distribution box with 4 dual-channel M12×1 A-coded 5-pin female sockets. Sensors plug straight in, and every port is brought back to the panel on a single pre-moulded 5 m PVC master cable — replacing individual sensor cable runs, glands and terminal rails.

## Key Features

- 4 dual-channel M12×1 A-coded 5-pin ports, PNP (sourcing)
- Standard 3-wire and 4-wire PNP sensors plug in directly — no adaptor
- Pre-moulded 5 m PVC master cable, 11-core with flying leads
- Status LEDs at every port plus a central green power LED
- One-piece moulded, fully sealed body — no screw terminals to loosen
- IP67 with all ports mated or capped; -25 °C to +80 °C
- Mates with M12 cordsets from any manufacturer

RoHS

ISO 9001

IP67

**Typical applications:** Compact special-purpose machines, single-station assembly cells, one filling or capping head, small pneumatic manifolds.

Manufactured to RoHS requirements in a facility operating an ISO 9001 quality-management system.

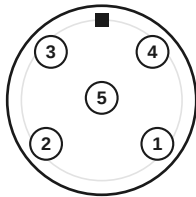


VXT-JB-M12-04D-05M shown · 4-port body with moulded 5 m master cable

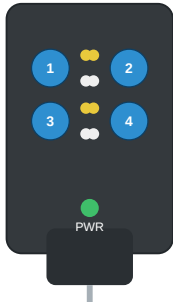
# Technical Specifications

| General Specifications    |                                           | Environmental Specifications |                                         |
|---------------------------|-------------------------------------------|------------------------------|-----------------------------------------|
| Number of ports           | 4                                         | Ambient temperature          | −25 °C to +80 °C                        |
| Port type                 | Dual channel                              | Protection rating            | IP67 (all ports mated or capped)        |
| Sensor interface          | 4 × M12×1 female, A-coded, 5-pin          | Installation                 | Wash-down, high-vibration, high-ambient |
| Output logic              | PNP (sourcing)                            |                              |                                         |
| Master cable              | Pre-moulded, 5 m                          |                              |                                         |
| Cable construction        | PVC, grey, 11-core, flying leads          | Materials & Construction     |                                         |
| Indication                | Green power LED; status LEDs at each port | Housing                      | PBT-GF                                  |
|                           |                                           | Seal                         | NBR O-ring                              |
| Mounting                  | 2 × through-holes, wall or profile        | Cable jacket                 | PVC                                     |
|                           |                                           | Socket thread                | M12×1                                   |
| Electrical Specifications |                                           | Body                         | One-piece moulded, fully sealed         |
| Rated voltage             | 24 V DC                                   |                              |                                         |
| Operating voltage         | 10–30 V DC                                |                              |                                         |
| Rated current per port    | 4 A                                       |                              |                                         |
| Total current per box     | 6 A                                       |                              |                                         |
| Signal pins               | Pin 4 and pin 2                           |                              |                                         |

# Port Pin Assignment



Socket front view (mating face)



Port numbering, front face  
Status LEDs at each port

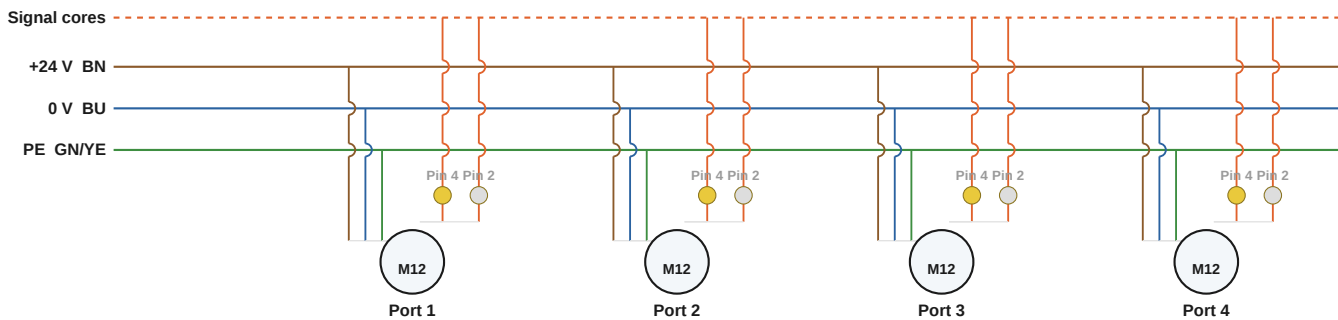
| Pin | Assignment | Cordset core   | Function                                     |
|-----|------------|----------------|----------------------------------------------|
| 1   | +24 V      | Brown          | Sensor supply                                |
| 2   | Signal 2   | White          | Second output, where the sensor provides one |
| 3   | 0 V        | Blue           | Supply common                                |
| 4   | Signal 1   | Black          | Switching output of a standard PNP sensor    |
| 5   | PE         | Green / Yellow | Protective earth / screen                    |

## VXT-JB-M12-04D-05M — Dimensions & Wiring

| Dimensions            |                               | Selection Notes |                                                        |
|-----------------------|-------------------------------|-----------------|--------------------------------------------------------|
| Body length           | 98.5 mm                       | Replaces        | Dual-channel distribution boxes of the same port count |
| Body width            | 58 mm                         |                 |                                                        |
| Port pitch            | 25 mm                         | Sensor types    | 3-wire and 4-wire PNP, 4-pin and 5-pin M12 plugs       |
| Mounting hole centres | 30 mm (transverse)            | Unused ports    | Fit M12 protective caps to maintain IP67               |
| Socket thread         | M12×1                         |                 |                                                        |
| Master cable length   | 5 m                           | Cable options   | 2 m, 5 m and 10 m PVC (5 m supplied)                   |
| Cable exit            | Bottom, moulded strain relief |                 |                                                        |

## Circuit Diagram

to master cable



PNP circuit, all ports shown. Signal pins 4 and 2 run through to the master cable; each has its own status LED.

## Ordering Information

### 4-Port Dual Channel · PNP · M12 A-Coded 5-Pin

4-port dual channel, 2 m PVC master cable

**VXT-JB-M12-04D-02M**

4-port dual channel, 5 m PVC master cable — this datasheet

**VXT-JB-M12-04D-05M**

4-port dual channel, 10 m PVC master cable

**VXT-JB-M12-04D-10M**

Also available in 6-port, 8-port, 10-port versions, each in 2 m, 5 m and 10 m cable lengths. M12 protective caps and M12 cordsets available separately. HSN 8536 90 90.

## Notes

- Unused ports must be fitted with M12 protective caps to maintain the IP67 rating.
- A standard 3-wire PNP sensor with a 4-pin or 5-pin M12 plug mates directly; its output lands on pin 4 and pin 2 stays unused. No adaptor or rewiring is required.
- Master cable core identification: protective earth green/yellow, +24 V brown, 0 V blue. Remaining cores are individually colour-coded; an identification chart is supplied with every box.
- Total current per box is the limit of the master cable. The per-port rating applies to the total drawn through that port.
- Dimensions are nominal. Certified drawings are available on request.

*Specifications subject to change without notice. Please verify the latest specifications before ordering.*