

M12 SENSOR DISTRIBUTION BOX

VXT-JB-M12-10D-05M

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

10 Ports · Dual Channel

M12 A-Coded, 5-Pin

A passive sensor distribution box with 10 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

- 10 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, 23-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: Long conveyor runs, rotary fillers, multi-station special-purpose machines and high-density pneumatic stations.

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

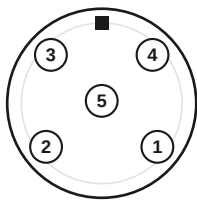


VXT-JB-M12-10D-05M shown · 10-port body with moulded 5 m master cable

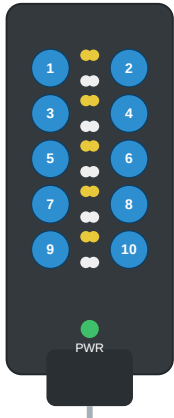
Technical Specifications

General Specifications		Environmental Specifications	
Number of ports	10	Ambient temperature	−25 °C to +80 °C
Port type	Dual channel	Protection rating	IP67 (all ports mated or capped)
Sensor interface	10 × 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, 23-core, flying leads	Materials & Construction	
Indication	Green power LED; status LEDs at each port	Housing	PBT-GF
		Seal	NBR O-ring
		Cable jacket	PVC
Mounting	2 × through-holes, wall or profile	Socket thread	M12×1
		Body	One-piece moulded, fully sealed
Electrical Specifications			
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

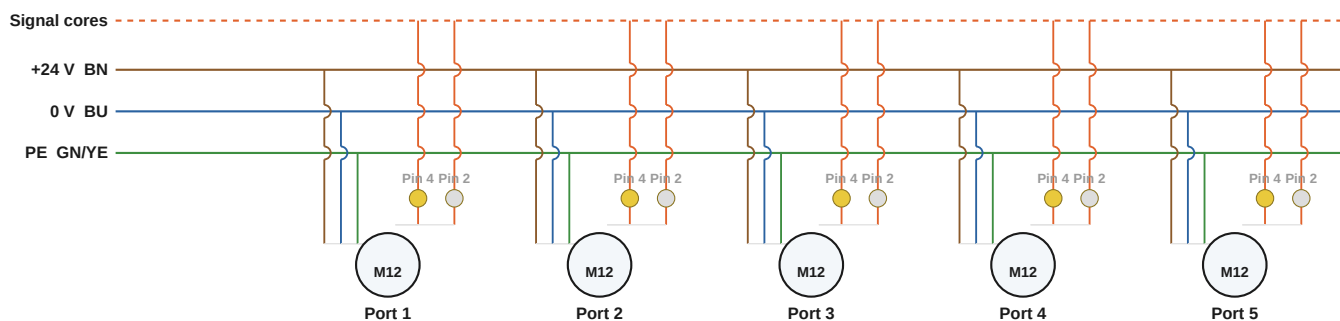
Pin	Assignment	Cordset core	Function
1	+24 V	Brown	Sensor supply
2	Signal 2	White	Second output, where the sensor provides one
3	0 V	Blue	Supply common
4	Signal 1	Black	Switching output of a standard PNP sensor
5	PE	Green / Yellow	Protective earth / screen

VXT-JB-M12-10D-05M — Dimensions & Wiring

Dimensions		Selection Notes	
Body length	173.5 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 · first 5 of 10 ports shown; the pattern repeats across the box. Signal pins 4 and 2 run through to the master cable; each has its own status LED.

Ordering Information

10-Port Dual Channel · PNP · M12 A-Coded 5-Pin

10-port dual channel, 2 m PVC master cable

VXT-JB-M12-10D-02M

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

VXT-JB-M12-10D-05M

10-port dual channel, 10 m PVC master cable

VXT-JB-M12-10D-10M

Also available in 4-port, 6-port, 8-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.