

ASNB Narrow Belt Sorter

BLDC
Motors

up to
6,000
Packages
per hour

Plug and
Play

AS DUAL
& QUATRO

24 V
240 Watt

48 V
240 Watt

Intended Use

Automation Supply has developed a Narrow Belt Sorter module that allows sorting at moderate speeds, at 90 degrees. By using our motors and controllers it is truly plug and play.

Common applications

- Sorting Lines
- Workstations

Designed for the future

AS Narrow Belt Sorter modules are developed in order to meet today's and tomorrow's application areas.

Operational specifications and state of the art features.

- Upgradable firmware
- Custom sizes possible



Scope of delivery

Our Narrow Belt Sorter requires the below components to function correctly, you are however free to use other components if they are compatible with our technology platform. Variations may change scope of delivery.

	Information	Specifications	Details
1	AS Controller	1x AS Dual 1x AS Quatro	Controls motors and I.O.s 240 Watt max Included
2	Lift and Divert Module	Divert products 90 degrees	48 VDC, rotation + transport Based on size Included
3	Roller Bed	Transport products in main flow	1 MDR + Slaverollers - Included
4	Control Box	Control Box for I.O. control	Peripherals and powers NB Sorter - Included
5	24V or 48V PSU	24V 10A or 48V 5A Power Supply	240 Watt advised - Not Included

From Creators for Creators



Technical Specifications

ASNB | Narrow Belt Sorter

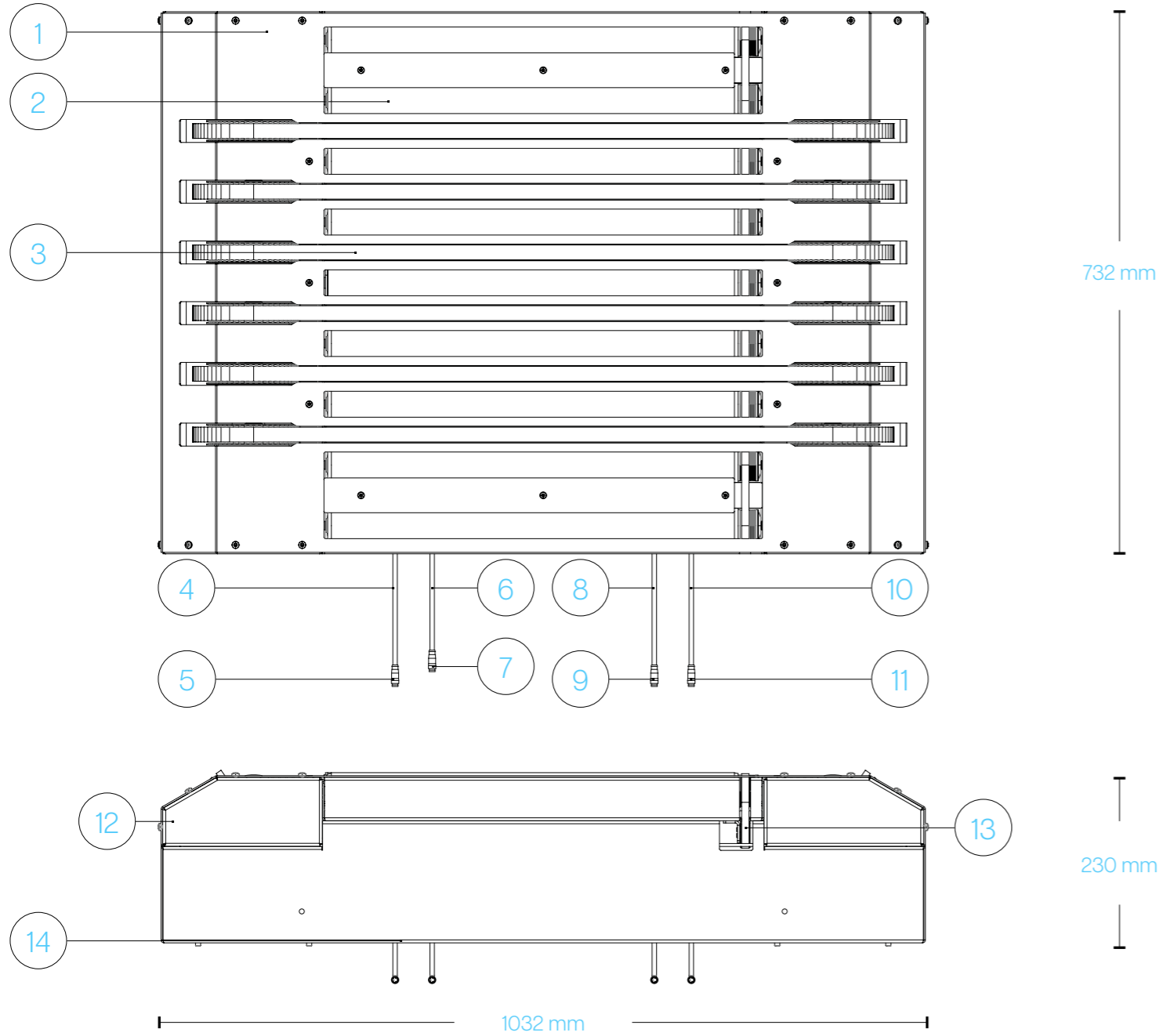
Required Controllers	AS Dual or AS Quatro
Power Input Rollers and Belts	24 VDC 10A
Power consumption (Rated)	240 W
Motor Connector Roller en Belts	5-pin M8 Snap-in connector ¹
Sensor Connector	4-pin M8 [4x] ¹
Emergency connector	Yes 3-pin Snap-in connector
Overvoltage protection	Only in combination with AS Dual and AS Quatro controllers
Protection rate	IP 54
Motor types	AS MDR AS External Motor
Drive types	HTD8M for Diverting Poly-V for transportation
Certifications	CE
Minimum and Maximum Speed	Min Speed 0.1 m/s Max Speed 1.3 m/s ²
Standard Configuration	4.000 products per hour at 25kg 600 x 400 x 240 mm max product size
High Speed Configuration	6.000 products per hour at 15kg 400 x 400 x 240 mm max product size
Sortable items	Cartons Plastic Crates Bags
Minimum item size	150 x 150 mm
Minimum and Maximum item weight	Minimum item weight: 100 g Maximum item weight: 35 kg ³

Additional information

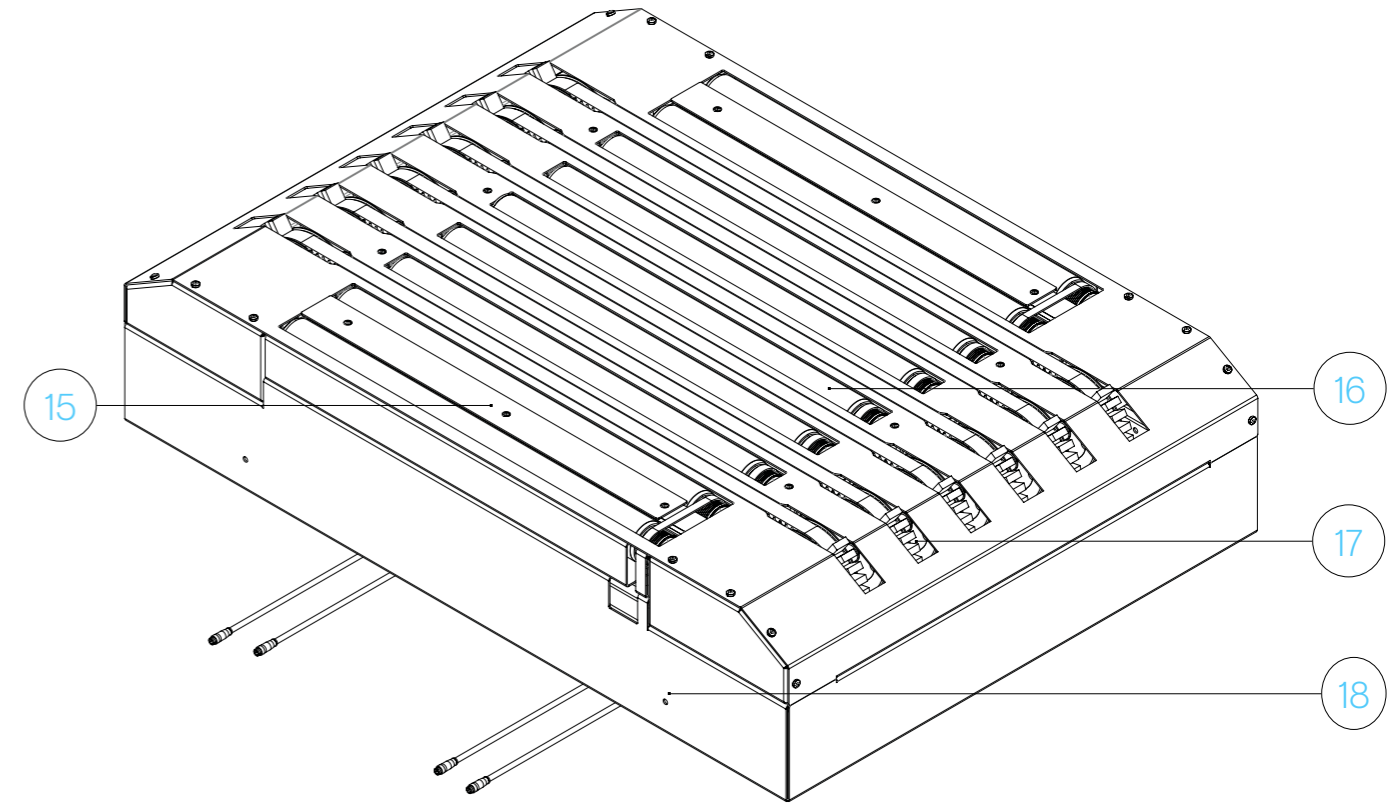
1. The motor for the Rollers and Belts are ASMDRs or ASEM motors that are based on analog 0 - 10 V on a M8 5-pin snap-in connector.
2. Min and maximum speed can vary based on application and chosen motor types, contact our sales team for the right requirements for your system.
3. The maximum weight of the NB Sorter for diverting actions can be increased up to 35 kg by dimensioning the right motors.

ASNB Narrow Belt Sorter

BLDC Motors	up to 6,000 Packages per hour	Plug and Play	AS DUAL & QUATRO	24 V 240 Watt	48 V 240 Watt
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Description	Details	Description	Details
1	Sheet metal Top Cover 2 mm powder coated steel	10	Divert Motor Cable 6 mm PU Cable
2	Slave Roller Plastic Poly-V Slave roller	11	Divert Motor Connector M8 5P Male
3	Divert Belt HTD8M Timing Belt	12	Sheet metal Side Cover 2 mm powder coated steel
4	Divert Motor Cable 6 mm PU Cable	13	Poly-V Belt Long 2PJ
5	Divert Motor Connector M8 5P Male	14	Cable Outlet 40 x 20 mm
6	Home Sensor Cable 6 mm PU Cable	15	Fingerguard 2 mm powder coated steel
7	Home Sensor Connector M8 4P Male	16	MDR Poly V ASEM24V
8	MDR Motor Cable 6 mm PU Cable	17	Belt Cleats 20 mm x 5 mm PU
9	MDR Motor Connector M8 5P Male	18	Module Mounting holes M8x1.25

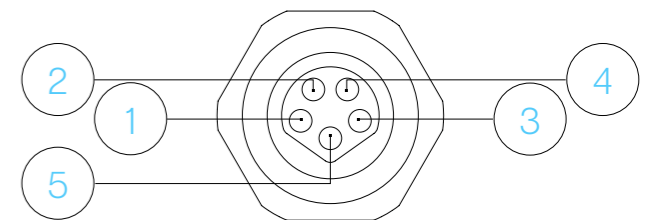


Connection Specifications

Motor Connectors

1.	24 V / 48 V Red 0.32 mm ²
2.	Direction Green 0.25 mm ²
3.	GND Blue 0.32 mm ²
4.	Error/ Pulse Black 0.25 mm ²
5.	Speed Yellow 0.25 mm ²

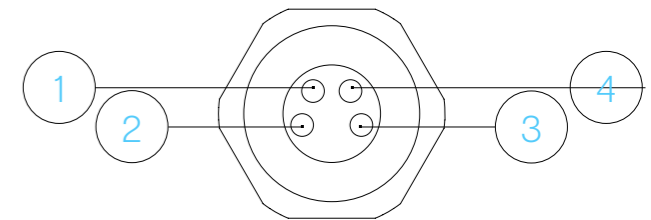
8 10 12



Sensor Connectors

1.	24V
2.	GND
3.	Sig 1
4.	Sig 2

14



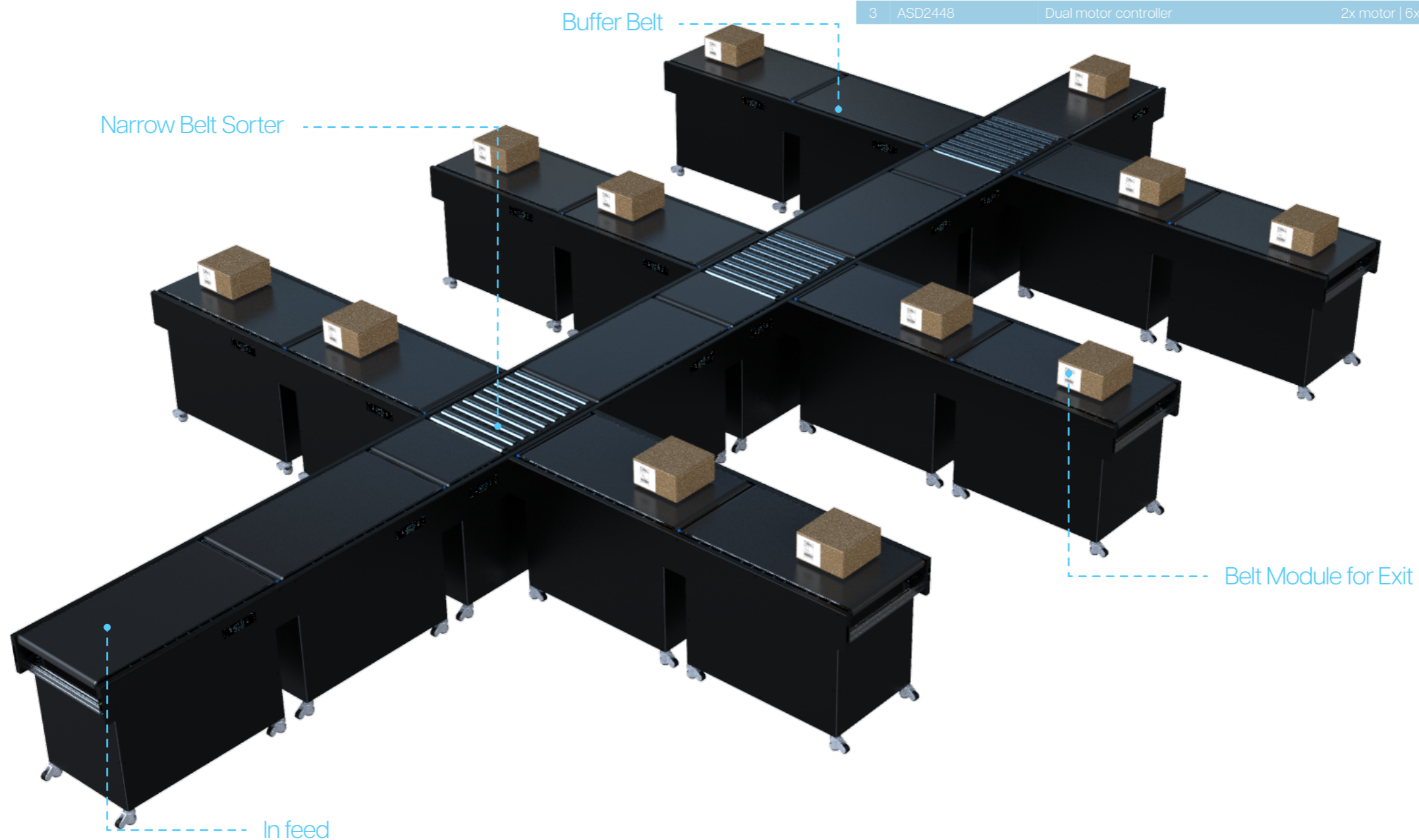
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Example application: Modular Sorting System

Learn more on www.automationsupply.nl

* In feed and sorting strategy to be processed by WMS system of end-customer



Required Components and Modules

	Information	Specifications
1	ASNB Narrow Belt Sorter	Sorts up to 1.240 Packages per hour @ 35 kg
2	ASBM Belt Module	Transport weights up to 35 kg @ 1.25 m/s
3	ASD2448 Dual motor controller	2x motor 6x I.O. 1x Power in 2x Emergency

Disclaimer

AS and AS partners are not responsible for integration and usage of our products outside of the specified application range, technical specifications and in combination with third party components.

Images may differ from the actual product due to our continuous product improvement.



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