



FEATURES

Compact Size:

Miniature housing that saves space in compact equipment designs. The lightweight design makes it possible to plug the unit directly into a DIN rail compatible socket.

Memory and Non- memory inputs:

Memory inputs may be used in "non-revenue" applications where the boom will not close between authorised following vehicles.

Manual / remote override option:

The controller may be manually placed in the "raise" or "lower" condition. Using this feature, the gate will remain in the selected state regardless of inputs or timers. This may be a local or remote override.

Selectable Timings:

The controller has a selectable rollback time-out for the protection of the vehicle should it move back on to the closing loop whilst the barrier is lowering. Also if the vehicle fails to exit, the auto close timer will lower the gate after a preset delay.

Ticket Vend Interlock:

This output will inhibit ticket issue while the boom is opening or opened. The output will either be activated when the barrier is raised, Ticket Vend Interlock (TVI) mode or on the completion of a transaction, End of Transaction (EOT) mode.

Boom gate / motorised door controller

BD112P

The BD112 Gate Logic Controller is used to control the operation of automatic boom gates and motorised gates and doors.

The module receives control signals from external devices (i.e. Card readers, ticket vending machines, free exit loop, etc.) that determines the control output to the gate motor.

The unit has an integral vehicle detector designed to monitor a "safety" loop installed immediately below the boom gate arm or roller – door. While a vehicle is over this loop the controller will not allow the barrier to lower. The unit has Memory, and Non Memory inputs and a Ticket Issue Interlock or End of transaction outputs.

Motor control is via a change-over relay contact.

PART NUMBER

310FT0411 BD112P Nortech 240 VAC

Input and Status Indicators:

A "Status" indicator indicates the motor control output status and the presence of a manual override.

The "Input" indicator provides information on the status of the "in-built" vehicle detector.

Motor Control:

In general applications a torque motor should be used with the BD112 but a conventional motor with limit switches may also be controlled.

APPLICATIONS

- Parking boom gate control
- Motorised gates and doors
- Industrial control systems

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TECHNICAL DETAILS

BD112P

Self tuning	20-1500µH	Operating temperature range: -40°C to +70°C		
range: Sensitivity:	Four step adjustable	Mechanical detail:		
Censitivity.	High - 0.02% Δ L/L Med - High 0.05% ΔL/L Med - Low 0.1% ΔL/L Low: 0.5% ΔL/L	Material: Dimensions: Mounting:	High heat ABS blend 76(H) x 40(W) x 78(L)mm Shelf or DIN-rail socket	
Frequency:	Four step adjustable on face plate, High, Med-High, Med-Low, Low (frequency determined by switch setting and loop geometry)	Connector: submagnal	Single rear mount 11-pin (JEDEC No. B11-88)	
Automatic Sens. Boost:	Switch selectable	74,0mm		
Presence Time:	Selectable - limited or permanent presence. (Limited-presence 1 hour for $3\% \Delta L/L$			
Roll-back Time:	2 secs. or 10 secs.			
Auto-Close:	30 secs. or 1 minute			
Operating modes:	Push button on front of enclosure 1. Auto 2. Raise 3. Lower	⊲ 78,0mm►		
Indications:	The following face-plate indications are provided: 1 x Power LED – Red	WIRING DE	designation	
	1 x Status LED – Yellow 1 x Input LED – Green	1 Live 2 Neutral	230V AC 50/60 Hz	
Inputs:	Memory and Non-memory inputs Optically Isolated (500V DC) Active high requiring connection to 0V (Potential Free Relay contact) 10 mA sink current @ 12V DC	 3 Raise contact 4 Lower contact 5 Ticket Vend Interlock N/O contact 6 TVI common contact 7 Memory input 8 no connection 9 Memory input negative 10 Loop 		
Input signal duration:	80 m.s. minimum Minimum of 2 Seconds between inputs on Memory input.			
Power requirements:	240V AC ± 15% 48-60Hz 1.5VA max @ 230V	10 Loop 11 Loop	Twist this pair	
Ticket Issue Interlock / EOT	Relay - Max current = 1Amp : Max voltage permissible 30 VDC	OPTIONAL ITEMS		
Raise and Lower Relay:	Change over contact Contact supply 230 VAC Live Max current permissible 5A Max inrush current 8A	CTR 119090 11 pin Relay Base		
Note:	An external contactor is required for motors with a higher current rating			



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