REGENT'S

Force™

TWO-CHANNEL TORQUE CONTROL

***Force90/24-120* for 120 VAC Logic**
***Force90/24-32* for DC Logic**

Features

- Self-contained manual torque control.
- Adjustable torque settings (from 5% to 100%) with dials on unit.
- Increases clutch/brake life with adjustable switching time delay.
- Isolated logic input for load control.
- Compact size. DIN rail or panel mount.
- LED load status indicators.
- Regent's 2 Year Warranty.

Ideal for:

► Converting machinery

► Web feed control

► Packaging machinery

► Tension control

The *Force90* and *Force24* Torque Controls provide manual torque adjustment for 90 VDC or 24 VDC clutches and brakes.

When power is applied to the control, the brake is on and the clutch is off. When a logic signal is applied, the brake turns off and the clutch turns on. Torque levels of the brake and clutch are independently adjustable.

Isolated logic input permits direct interface with PLC output modules, photoelectric controls, contacts, etc.

Adjustable switching time delay lets you minimize overlap between the clutch and brake. Reduced overlap means longer mechanical life.

PART NUMBER BUILDER

Force90 – *120*

Control Logic
- ***120*** for 120 VAC logic
- ***32*** for DC logic

Series Name
Force90 for 90V Clutch or Brake
Force24 for 24V Clutch or Brake

FOR MORE INFORMATION CALL 203-732-6200

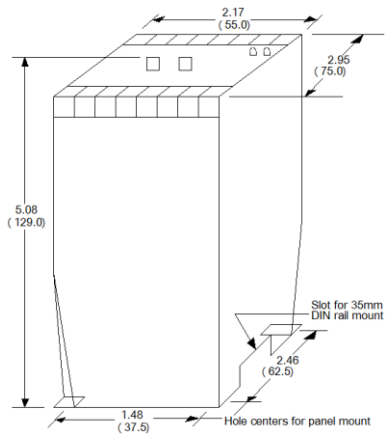
e-mail: sales@regentcontrols.com

OR VISIT US ONLINE AT www.regentcontrols.com

Regent's *Force90/24*™

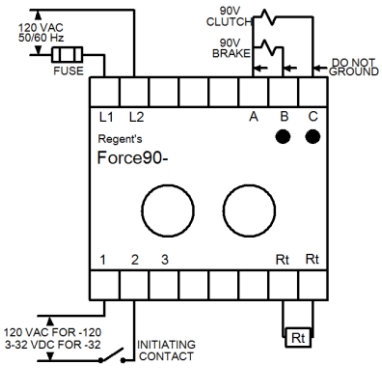
Two-Channel Torque Control for 90VDC or 24VDC Clutch/Brakes

DIMENSIONS

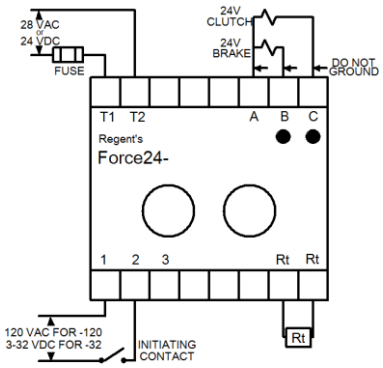


WIRING DIAGRAMS

Force90



Force24



NOTES

1. Logic terminals 1,2 are isolated. Terminal L2 or T2 and/or 2 may be grounded.
2. Load terminals A,B,C are not isolated from line terminals L1,L2 or T1,T2 and must not be connected to ground.
3. Do not place switches or mechanical contacts between load terminals A,B,C and the load. Opening these circuits while current is flowing may damage the control.

For 90 VDC Clutch/Brake (*Force90*):

SPECIFICATIONS	*Force90-120*	*Force90-32*
Line Input (L1,L2)	120 VAC +/- 20%, 50/60 Hz 25 mA burden (excluding load)	120 VAC +/- 20%, 50/60 Hz 25 mA burden (excluding load)
Logic Input (1,2)	120 VAC +/- 20%, 50/60 Hz, 25 mA burden (will not operate on leakage current below 10 mA)	3-32 VDC, 1-35 mA burden
Load Rating (A,B,C) **Output current**	Adjustable from 5% to 100% of full load 1 A maximum	Adjustable from 5% to 100% of full load 1 A maximum
Switching Time Delay (RT,RT)	Adjustable from less than 1 to 100 msec	Adjustable from less than 1 to 100 msec
Recommended Line Fuse	Wickmann 231 2A	Wickmann 231 2A
Temperature	0 to 65°C (32 to 149°F)	0 to 65°C (32 to 149°F)

For 24 VDC Clutch/Brake (*Force24*):

SPECIFICATIONS	*Force24-120*	*Force24-32*
Line Input (T1,T2)	24 VDC +/- 2 VDC or 28 VAC +/- 20%, 50/60 Hz 35 mA burden (excluding load)	24 VDC +/- 2 VDC or 28 VAC +/- 20%, 50/60 Hz 35 mA burden (excluding load)
Logic Input (1,2)	120 VAC +/- 20%, 50/60 Hz, 25 mA burden (will not operate on leakage current below 10 mA)	3-32 VDC, 1-35 mA burden
Load Rating (A,B,C) **Output current**	Adjustable from 5% to 100% of full load 1.5 A maximum	Adjustable from 5% to 100% of full load 1.5 A maximum
Switching Time Delay (RT,RT)	Adjustable from less than 1 to 100 msec	Adjustable from less than 1 to 100 msec
Recommended Line Fuse	Littelfuse 322005	Littelfuse 322005
Temperature	0 to 65°C (32 to 149°F)	0 to 65°C (32 to 149°F)

Note: Switching Time Delay is 10 msec per every 1 K ohm of resistance.

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