



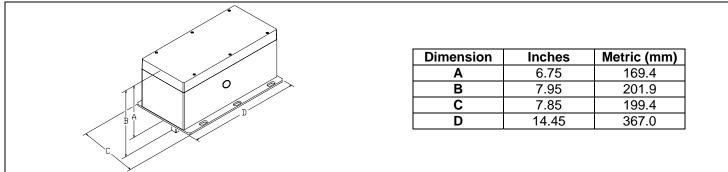
Fe

eature:	UM200
• Up to 4000 in.lb [450Nm].	UM220
 Clutch for manual adjustments. 	UM210
Maintenance free.	UM230
 Control signal fully programmable. 	WM200
 Fail safe (battery backup) 	WM220
(on model 210 & 230).	WM210
 Auxiliary switches (on model 220 & 230). 	WM230

• IP56 enclosure.

Technical	UM200	UM220	UM210	UM230	WM200	WM220	WM210	WM230
Data		UWIZZU	UWIZTU	UWIZOU	VVIVIZOU	VV IVI220	VVIVIZ I U	VVIVI230
Auxiliary switches	No	Yes (2)	No	Yes (2)	No	Yes (2)	No	Yes (2)
Fail safe	No Yes			No Yes				
Torque	2500 in.lb. [280 Nm] at rated voltage				4000 in.lb. [450 Nm] at rated voltage			
Running time through 90º	4 min.				8 min.			
Feedback	4 to 20 mA or 2 to 10 VDC adjustable							
Power consumption	40 VA							
Power supply	28 to 32 VDC or 22 to 26 VAC, 220 to 250 VAC 50/60Hz							
Electrical connection	18 AWG [0.8 mm ²] minimum							
Inlet bushing	3 inlet bushing of 7/8 in [22.2 mm]							
Control signal	Analog or Digital programmable (factory set with Analog control signal)							
Angle of rotation	0 to 110 degrees, electronically adjustable (factory set with 110° stroke)							
Direction of rotation	Reversible, Clockwise (CW) or Counterclockwise (CCW) (factory set with CW direction)							
Ambient temperature	0°F to +122°F [-18° C to +50° C]							
Storage temperature	-22°F to +122°F [-30° C to +50° C]							
Relative Humidity	5 to 95 % non condensing.							
Weight	29 lbs. [13 kg]							
I	Warnin	g: Do not j	press the c	lutch whe	n actuator	is powered	d	

Dimensions

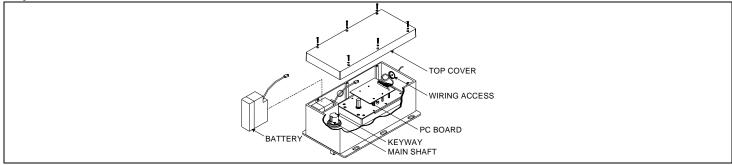


Caution

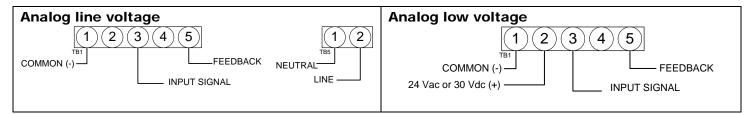
We strongly recommend that all neptronic® products be wired to a separate transformer and that transformer shall service only neptronic® products. This precaution will prevent interference with, and/or possible damage to incompatible equipment. When multiple actuators are wired on a single transformer, polarity must be observed. Long wiring runs create voltage drop which may affect the actuator performance.

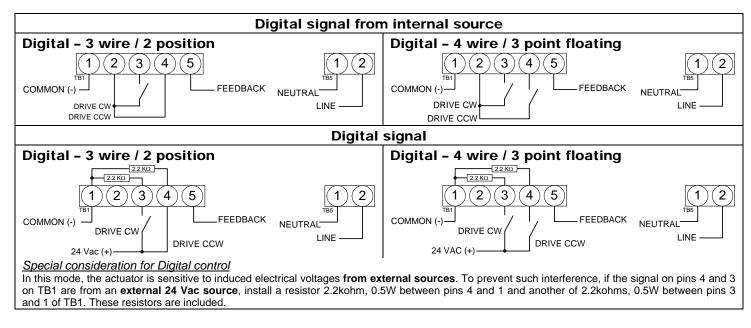


Exploded view



Wiring Diagrams



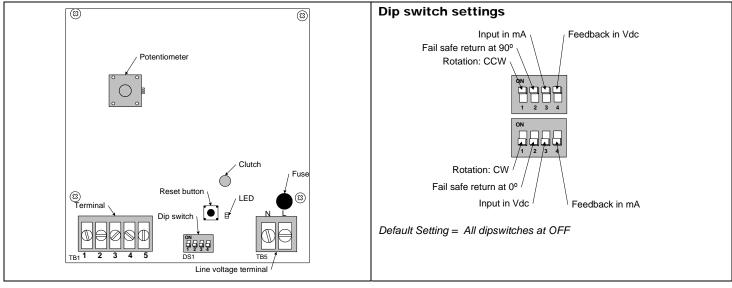


Input Signal and Feedback setup

	Input Signal	Feedback
Analog Mode	Input Signal is set with Dipswitch # 3 DS1-3 at OFF = 2 – 10Vdc (default setting) DS1-3 at ON = 4 – 20mA	Feedback is set with Dipswitch #4 DS1-4 at OFF = 4 – 20mA (default setting)
Digital Mode	No Input Signal Setting DS1-3 MUST be at OFF	DS1-4 at OFF = $4 - 2000 \text{ A}$ (default setting) DS1-4 at ON = $2 - 10 \text{ Vdc}$

UM200/220/210/230 WM200/220/210/230

PC Board



Stroke adjustment - No control signal change

- 1. Apply power and, wait for at least 10 seconds.
- /Press and release the reset button to start the auto-stroke process. The LED should be illuminated.
 - First option:

The actuator will then travel in both directions to find it's limit and position itself according to the demand. The LED will extinguish, the process is complete.

 Second option: When the desired end position is reached, press and release the reset button. The actuator will now return back to its original position. (you can also press and release the reset button when It's reaches the original position) The LED will extinguish, the process is complete.

Programming - Change of control signal

- 1. Remove power and put all dip switches "OFF". (factory preset).
- 2. Apply power and, within 10 seconds, press and release the reset button. The LED should be blinking.
- 3. Select the control signal with dip switches:
 - <u>Digital</u> (On/Off or 3 point floating) move switch <u>No1</u> "ON" and then "OFF".
 - <u>Analog</u> (factory preset) move switch <u>No2</u> "ON" and then "OFF".
- 1. Stroke adjustment section above.

UM200/220/210/230 WM200/220/210/230

Zero and span calibration

This feature is applicable to analog control signal only.

- 1. Remove power and put all dip switches "OFF". (factory preset).
- 2. Apply power and, **within 10 seconds** press and **hold** the reset button until the LED blinks. The Zero and span calibration process then start.
- 3. Release the reset button. The LED is now constantly illuminated.
- 4. Apply new minimum voltage. It can be any value between 0 to 7 VDC, with an external 0 to 10 volt supply (ex: MEP).
- 5. Press and release the reset button to memorize the new minimum voltage. The LED blinks.
- Apply new maximum voltage. It can be any value between 3 to 10 VDC, this value should be greater than the new minimum value.
- 7. Press and release the reset button to memorize the new maximum voltage. The LED blinks. The Zero and span calibration process is complete.
- Note: To reset zero and span to 2 to 10 VDC (factory value). You just have to re-select the analog control signal mode, see Programming.

Wiring Diagrams for auxiliary switches (on model 220 & 230)

