

NABCO ENTRANCES TECHNICAL BULLETIN

S82 W18717 Gemini Drive
Muskego, WI, 53150
Phone: (877) 622-2694, Fax: (888) 679-3319
www.NabcoEntrances.com

Date: 9/21/16

Who is the contact?
Technical Support Department

Introducing the U30 revision E

Software updates have been made to the U30 control. The primary changes are:

1. Addition of Sensor Monitoring functionality to accommodate upcoming changes to the ANSI 156.10 standard
2. New warning messages
3. Changes to what the status LEDs on the end of the control indicate
4. Other programming changes

1. Sensor Monitoring

Sensor Monitoring is the ability of the control and the sensor to communicate.

- At the start of every closing cycle, the control sends a signal to the sensor
- Upon receiving this signal, the sensor performs an internal self-diagnostic test and then, if it passes the test, it signals the control back
- If a problem should occur, the sensor will not signal the control and the control will not allow the door to close until the problem is resolved.

By adjusting Extra Function Adjustments (6), the U30 can be set to accommodate sensors using either high or low monitoring signals (most sensors can do either). The control's monitoring output is factory set to normally open, which would be matched to a sensor using the high signal input.

The U30 E is still capable of working with non-monitored sensors.

**Programming information found later in this bulletin.
For more detailed info, see the U30 (rev.E) programming manual, C-00203**

2. New Warning Messages

The following Handy Terminal warning messages have been added that relate to the monitoring function:

- Warning 2-1 Monitoring error for input 6B (holding beam)
- Warning 2-2 Monitoring error for input SLS (sidelight sensor)
- Warning 2-3 Monitoring error for input 61 (interior sensor)
- Warning 2-4 Monitoring error for input 62 (exterior sensor)

The control will resume normal operation once a problem is resolved. The warning will remain logged until cleared with a Handy Terminal.

Bulletin Number: **75**

3. Changes to LEDs

Top LED, "Power & Error"

- On = power
- 1 Flash = Recycle
- 2 Flashes = 12VDC output overloaded
- 3 Flashes = Diagnostic Error, Check with Handy Terminal

Middle LED, "M0 & M1"

- Off = 2 way mode
- 1 Flash = 1 way mode
- 2 Flashes = Night mode
- On = Hold open

Bottom LED, "SQ & SLS"

- Off = both inputs off
- 1 Flash = SQ on
- 2 Flashes = SLS on
- On = Both inputs on

All other LEDs remain the same.

4. Other programming changes

New settings under "Extra Functions"

- Function 6 = Monitoring Logic, N = normally open, Y = normally closed
- Function 15 = SQ input now programmable, same additional functions as SLS input
- Function 16 = Additional opening force, to help opening speed on doors of excessive weight
- Function 17 = Turns on/off monitoring function for 6B (holding beam) and SLS (sidelite safety)
- Function 18 = Turns on/off monitoring function for 61 (Interior sensor) and 62 (Exterior sensor)
- Function 23 = Aux. Output 2, programmable output, Monitoring output added

For more detailed info, see the U30 rev. E programming manual, C-00203

Typical 1175 Wiring, U30 rev. E, Acusensor M, With Monitoring

Note the addition of the yellow wire from terminal 15 to overhead sensors and holding beam.

For more details, see U30 Rev.E Electrical Manual C-00198

