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Who is the contact?
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New BEA IXIO sensors with High-Logic Monitoring

In mid-May, NABCO began receiving new model BEA IXIO sensors with the monitoring logic set to “high” instead of “low”. This sensor is unique to NABCO.

Identifying High-Logic Sensors:

- 1) IXIO sensors with high-logic will say “High Active” on the box’s label along with a blue dot sticker on the box. See image below.
- 2) The sensors will also have a blue dot sticker on the back (side facing the mounting surface).

What happens when devices are mismatched:

- 1) The power/error light on the U30 will flash and the door will not close.
- 2) The Handy Terminal will show “Warning 2_3” and/or “Warning 2_4”.
“Warning 2_3” refers to sensor connected to 61 input on terminal 3 (usually the interior sensor)
“Warning 2_4” refers to sensor connected to 62 input on terminal 8 (usually the exterior sensor)

How to fix:

- 1) Using a blue Handy Terminal, go into “Extra functions” and check “Function 6”. It should be set to “N” for high-logic sensors.
- 2) The holding beam controller (Optex OS12C T) will need to be set to Mode B (2 flashes) when matched to high-logic devices.

Important note:

All settings for the control, sensors and holding beam module must have the same logic settings. They must be set either all high or all low. They cannot be mismatched.



The following pages show an updated **Sensor Monitoring Quick Setup Guide**

Bulletin Number: **94**



Sensor Monitoring Quick Setup Guide

U30 Control Sensor Monitoring settings for Automatic Sliding Doors with U30 Control					
Acusensor M		Acuzone / X-zone T		Optex OS-12 T	
U30	Sensor	U30	Sensor	U30	Sensor
Function 6 (monitoring logic) ▲ set to "N" (nomally open / High active)	Dip Switch 3 (output logic) set to "N.O." (down position)	Function 6 (monitoring logic) ▲ set to "N" (nomally open / High active)	Dip Switch 11 (activation output logic) set to "N.O." (down position)	Function 6 (monitoring logic) ▲ set to "N" (nomally open / High active)	Set to Mode "B" (two flashes) ▲ (1 flash)
Function 18 (61 & 62 monitoring) set to "3" (61 & 62 both monitored)	Dip Switch 4 (input logic) ▲ set to "High" (down position)	Function 18 (61 & 62 monitoring) set to "3" (61 & 62 both monitored)	Dip Switch 12 (safety output logic) set to "N.O." (down position)	Function 17 (6B & SWL monitoring) ● set to "1" (6B monitored)	
Function 23 (Aux Output 2) set to "7" (Monitoring output ON)		Function 23 (Aux Output 2) set to "7" (Monitoring output ON)	Dip Switch 13 (test input) ▲ set to "High" (down position)	Function 23 (Aux Output 2) set to "7" (Monitoring output ON)	
			Dip Switch 14 (Simultaneous output) set to "ON" (up position)	● If Sidelite Safety sensors are used and monitored, "Function 17" on U30 should be set to "3" (6B & SWL monitored)	
Optex i-OneX T		BEA IXIO, Low Logic		BEA IXIO, High Logic (Blue Dot on back side)	
U30	Sensor	U30	Sensor	U30	Sensor
Function 6 (monitoring logic) ▲ set to "N" (nomally open / High active)	Dip Switch 14 (Simultaneous output) set to "ON" (up position)	Function 6 (monitoring logic) set to "Y" (nomally closed / Low active)	"Test" set to "ON"	Function 6 (monitoring logic) set to "N" (nomally open / High active)	"Test" set to "ON"
Function 18 (61 & 62 monitoring) set to "3" (61 & 62 both monitored)	Dip Switch 15 (safety output logic) set to "N.O." (down position)	Function 18 (61 & 62 monitoring) set to "3" (61 & 62 both monitored)	"Rad Output" and "IR Output" set to "DeEner / N.O."	Function 18 (61 & 62 monitoring) set to "3" (61 & 62 both monitored)	"Rad Output" and "IR Output" set to "DeEner / N.O."
Function 23 (Aux Output 2) set to "7" (Monitoring output ON)	Dip Switch 16 (safety input) ▲ set to "High" (down position)	Function 23 (Aux Output 2) set to "7" (Monitoring output ON)		Function 23 (Aux Output 2) set to "7" (Monitoring output ON)	
		▲ When using IXIOs with "Low Active" monitoring, all other devices must also be set to "Low Active"		High logic (high active) IXIOs can be identified by a blue dot sticker on the back side (side facing mounting surface)	



Sensor Monitoring Quick Setup Guide

Opus Control					
Sensor Monitoring settings for Swing and Folding Doors with Opus Control					
Acusensor M (overhead presence)		OA-Edge T (approach side)		OA-Edge T (swing side)	
Opus	Sensor	Opus	Sensor	Opus	Sensor
"Output 1" (Terminal 7 output) ▲ set to "Monitoring N.O." (high active)	Dip Switch 3 (output logic) set to "N.O." (down position)	"Output 1" (Terminal 7 output) ▲ set to "Monitoring N.O." (high active)	Dip Switch A7 (Test Input) ▲ set to "High" (high position)	"Output 1" (Terminal 7 output) ▲ set to "Monitoring N.O." (high active)	Dip Switch A7 (Test Input) ▲ set to "High" (high position)
"SWL Monitoring" (terminal 6, SWL input) set to "Active"	Dip Switch 4 (input logic) ▲ set to "High" (down position)	"62 Monitoring" (terminal 4, 62 input) set to "Active"	Dip Switch A8 (Test Input timer) set to "10msec." (up position)	"6B Monitoring" (terminal 5, 6B input) set to "Active"	Dip Switch A8 (Test Input timer) set to "10msec." (up position)
		"Input 62" (terminal 4, 62 input) set to "LE approach sensor"	Dip Switch B3 (monitoring) set to "Enable" (up position)		Dip Switch B3 (monitoring) set to "Enable" (up position)
			Dip Switch B4 (output select) set to "closing side" (down position)		Dip Switch B4 (output select) set to "opening side" (up position)
LZR microscan T		Superscan T (approach side)		Superscan T (swing side)	
Opus	Sensor	Opus	Sensor	Opus	Sensor
"Output 1" (Terminal 7 output) ▲ set to "Monitoring N.O." (high active)	"Monitoring" set to "Act & Stall"	"Output 1" (Terminal 7 output) set to "Monitoring N.C." (low active)	J3 set to Monitoring "ON"	"Output 1" (Terminal 7 output) set to "Monitoring N.C." (low active)	J3 set to Monitoring "ON"
"61 Monitoring" (terminal 1, 61 input) set to "Active"	"Monitoring Logic" set to "High Active" ▲	"62 Monitoring" (terminal 4, 62 input) set to "Active"		"6B Monitoring" (terminal 5, 6B input) set to "Active"	
"6B Monitoring" (terminal 5, 6B input) set to "Active"		"Input 62" (terminal 4, 62 input) set to "LE approach sensor"			
		▲ Since the Superscan T has only "Low Active" monitoring, all other devices must also be set to "Low Active"		▲ Since the Superscan T has only "Low Active" monitoring, all other devices must also be set to "Low Active"	
Optex Elite T, Settings on OC-904C T		Optex Premier T		BodyGuard T	
Opus	Sensor	Opus	Sensor	Opus	Sensor
"Output 1" (Terminal 7 output) ▲ set to "Monitoring N.O." (high active)	Dipswitch 4, Test Input set to "Enable"	"Output 1" (Terminal 7 output) ▲ set to "Monitoring N.O." (high active)	Dipswitch 7, Test Input set to "Enable"	"SWL Monitoring" (terminal 6, SWL input) set to "Active"	Monitoring Dip Switch set to "ON"
"61 Monitoring" (terminal 1, 61 input) set to "Active"	Dipswitch 5, Test Input ▲ set to "High"	"SWL Monitoring" (terminal 6, SWL input) set to "Active"	Dipswitch 8, Test Input ▲ set to "High"	"Output 1" (Terminal 7 output) set to "Monitoring (N.C.)" *See note	Output Conf. Should be N.O. relay
"6B Monitoring" (terminal 5, 6B input) set to "Active"	Dipswitch 6, Test output (Activate) set to "Enable"			IF USED: "Output 2" (Terminal 13 output) set to "BEA Bodyguard Output"	
				▲ Since the BodyGuard T has only "Low Active" monitoring, all other devices must also be set to "Low Active"	



Sensor Monitoring Quick Setup Guide

GT20 Control						Sensor Monitoring settings for Swing Doors with GT20 Control					
Acusensor M (overhead presence)		OA-Edge T (approach side)				OA-Edge T (swing side)					
GT20	Sensor	GT20	Sensor			GT20	Sensor				
No special settings needed. Monitoring always enabled, low active	Dip Switch 3 (output logic) set to "N.C." (up position)	No special settings needed. Monitoring always enabled, low active	Dip Switch A7 (Test Input) set to "Low" (low position)	No special settings needed. Monitoring always enabled, low active	Dip Switch A7 (Test Input) set to "Low" (low position)						
	Dip Switch 4 (input logic) set to "Low" (up position)		Dip Switch A8 (Test Input timer) set to "10msec." (up position)		Dip Switch A8 (Test Input timer) set to "10msec." (up position)						
			Dip Switch B3 (monitoring) set to "Enable" (up position)		Dip Switch B3 (monitoring) set to "Enable" (up position)						
			Dip Switch B4 (output select) set to "closing side" (down position)		Dip Switch B4 (output select) set to "opening side" (up position)						
		Must use Normally Closed output		Must use Normally Closed output							
Optex Premier T		Superscan T (approach side)				Superscan T (swing side)					
GT20	Sensor	GT20	Sensor			GT20	Sensor				
No special settings needed. Monitoring always enabled, low active	Dipswitch 1, Safety relay contact ste to "N.C."	No special settings needed. Monitoring always enabled, low active	J3 set to Monitoring "ON"			No special settings needed. Monitoring always enabled, low active	J3 set to Monitoring "ON"				
	Dipswitch 7, Test Input set to "Enable"		Must use Normally Closed output				Must use Normally Closed output				
	Dipswitch 8, Test Input set to "Low"										