



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

Date: November 14, 2017

Who is the contact?
Technical Support Department

Implementation of Sensor Monitoring in Production Units

Starting November 20th, NABCO Entrances will begin shipping GT1175 Automatic Sliding Doors and GT1400 Folding Door units with sensor monitoring functions enabled.

NABCO cannot predict what programmable inputs will be used to connect safety sensors for use on Opus controlled swingers, or even if a swinger unit will be used for full automatic or low energy use. Consequently, all swingers units will be set with monitoring disabled when they leave our factory. Monitoring can, however, be easily turned on through software on Opus controls when the unit is installed. As always, it is the responsibility of the installer to ensure that the automatic door product is properly wired and adjusted to comply with the applicable ANSI standard prior to placing it into service. All wiring and software adjustment information can be found in the NABCO installation manual sent out with every product.

IMPORTANT NOTES:

1. Opus controls with software revision 25 or later are required when enabling sensor monitoring function on swinger units or folding doors. As of November 20th, all full automatic swinger units or folding doors units leaving our factory will have version 25 software.
2. Monitoring cannot be turned off on GT20 swinger units. Monitoring is always enabled on all safety inputs except for the header mounted presence sensor input on terminal block X111.
3. The following pages in this bulletin show how to adjust settings on NABCO controls and common sensors to enable sensor monitoring. Use the tables to determine the required settings to based on the combination of control and sensors being connected.

Please contact NABCO Technical Support if you have questions.

Bulletin Number: **89**



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			
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 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 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)			
		▲ Since the BEA IXIO has only "Low Active" monitoring, all other devices must also be set to "Low Active"			



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.O." (low active)	J3 set to Monitoring "ON"	"Output 1" (Terminal 7 output) set to "Monitoring N.O." (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"										