

DIN PROFILE LOCKPLUG
SEE LOCK STYLE SELECTION OPTIONS.
*FOR HIGH SECURITY DIN LOCK ONLY - KEY CAN ONLY BE INSERTED/REMOVED IN LOCKED POSITION.
*FOR OTHER LOCK OPTIONS, KEY CAN BE INSERTED/REMOVED IN LOCKED OR UNLOCKED POSITION.

PROXIMITY CARD (ORDER SEPARATELY)

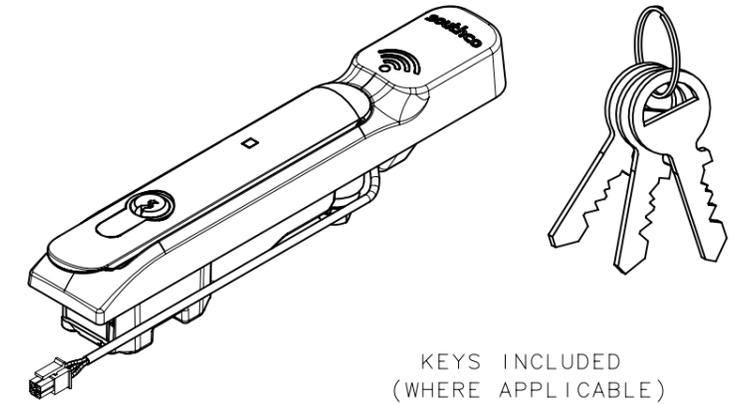
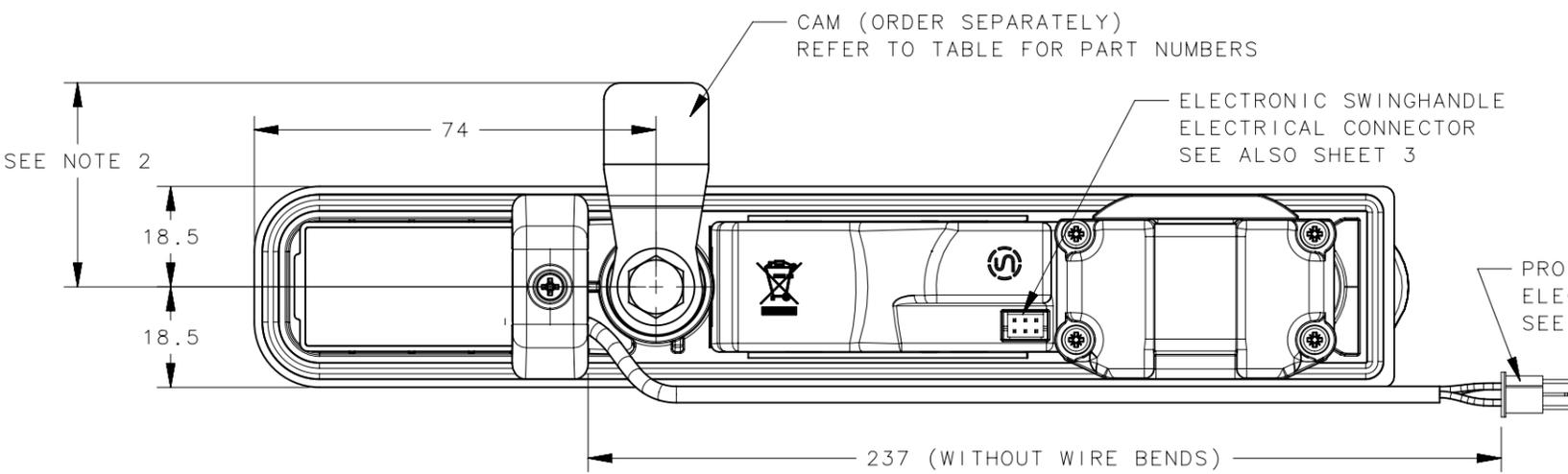
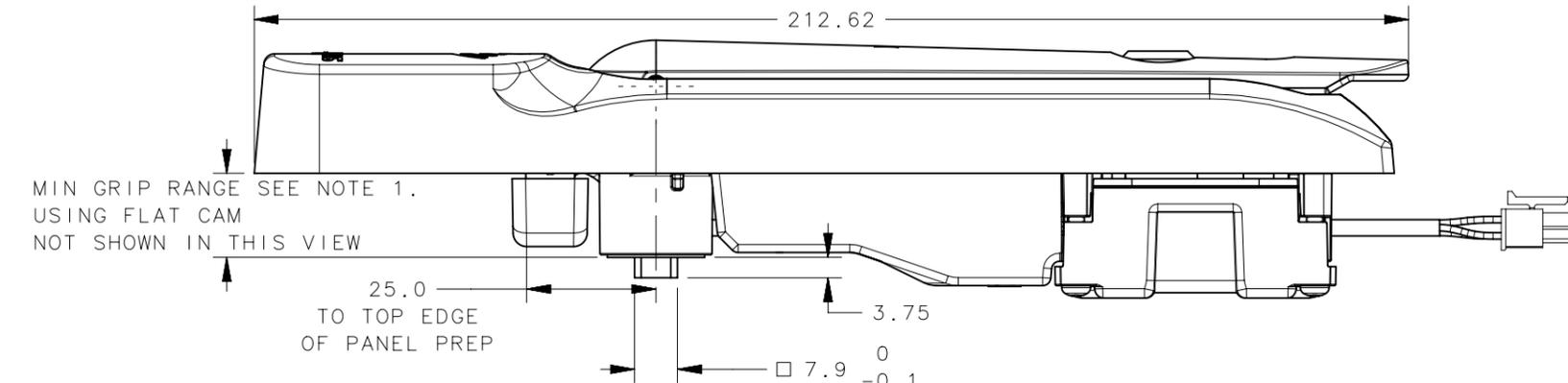
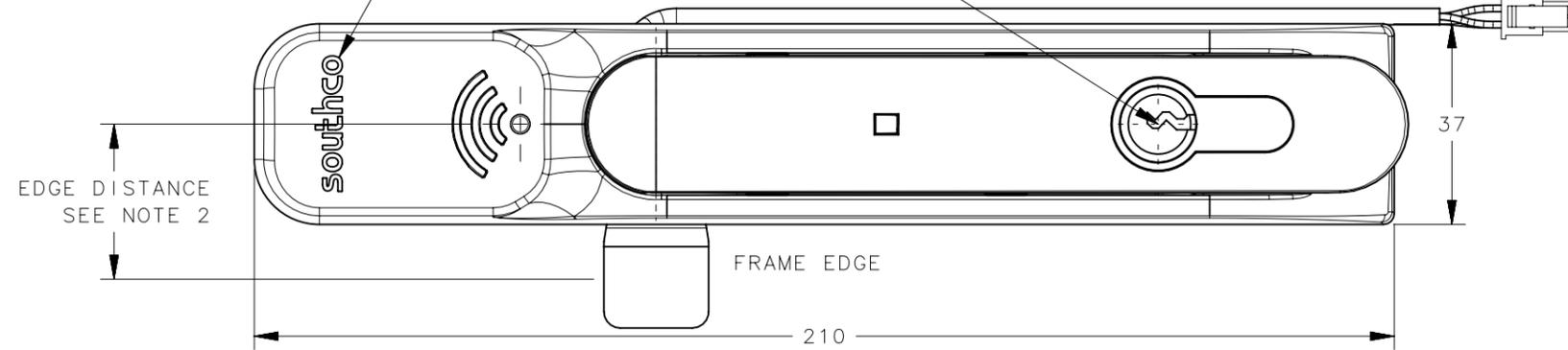
PART NUMBER SELECTION
EA-C2-021-9 PROXIMITY CARD
EA-C2-021 PROXIMITY CARD (NO LOGO)



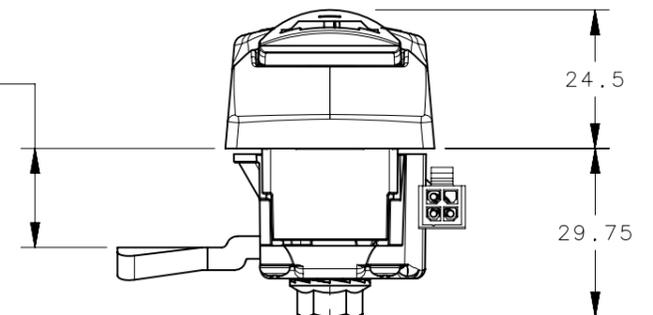
SCALE 1:3
SEE J-EA-C2-021
FOR MORE PROX CARD
INFORMATION

REVISION HISTORY			
REV	DATE	BY	DESCRIPTION
I	13NOV2017	CB1/VK	PRN: P2017-3021

PRINTED LOGO (OPTIONAL)



KEYS INCLUDED
(WHERE APPLICABLE)



GRIP RANGE 17.5
(EXAMPLE USING
OFFSET CAM P/N
E5-6711)

NOTES:

- MIN GRIP RANGE WITH FLAT CAM 15.5mm
EXAMPLE SHOWN: 2mm OFFSET CAM - GRIP RANGE 17.5mm
- FOR CAM LENGTH 38mm -EDGE DISTANCE 30mm.
FOR CAM LENGTH 45mm. -EDGE DISTANCE 37mm
- SELECT CAM PART NUMBERS ACCORDING TO TABLE TO PROVIDE GRIP REQUIRED.

GRIP	CAM PART NUMBER (ORDER SEPARATELY)	
	CAM LENGTH (1) 38 MM	CAM LENGTH (2) 45 MM
15.5	E5-6710	-
17.5	E5-6711	-
19.5	E5-6712	E5-6112
21.5	E5-6713	E5-6113
23.5	E5-6714	E5-6114

OTHER ADDITIONAL OFFSETS:

- SEE SOUTHCO DRAWINGS J-E5-67-A & J-E5-67-B
- SEE SOUTHCO DRAWINGS J-E5-61-A

- THE H3-EM-68-000 IS SHIPPED WITHOUT A LOCKPLUG. THIS PRODUCT MUST BE PAIRED WITH A SOUTHCO APPROVED LOCK TO FUNCTION PROPERLY. USE WITH AN UNAPPROVED LOCK PLUG VOIDS THE PRODUCT WARRANTY.
- READS THE FOLLOWING CARDS: HID® 125kHz PROX WITH WIEGAND DATA OUTPUT

ELECTRONIC SWINGHANDLE PART NUMBER SELECTION

H3-EM-68-LLL-XX

LLL LOCK STYLE
000 NO LOCK OR KEYS
001 BLANK LOCKPLUG: BRIGHT CHROME

100 HIGH SECURITY DIN LOCK (3 KEYS)
200 KEY CODE CH-751 (2 KEYS INCLUDED)
3LL KEY CODE RS001 (2 KEYS INCLUDED)

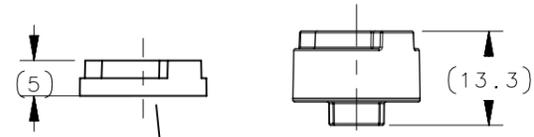
LL = 00 FOR KEY CODE RS001
CONTACT SOUTHCO FOR OTHER AVAILABLE KEY CODES)

XX LOGO STYLE
NONE NO LOGO
10 SOUTHCO LOGO

THIRD ANGLE PROJECTION	MILLIMETERS [IN]		
	TOLERANCES UNLESS OTHERWISE NOTED		
ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.			DESCRIPTION H3-EM ELECTRONIC SWINGHANDLE WITH PROX READER WITH WIEGAND DATA OUTPUT
PROPRIETARY ITEM EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING, INFORMATION DISCLOSED HEREON IS CONFIDENTIAL AND ALL RIGHTS, PATENT AND OTHERWISE, ARE RESERVED BY SOUTHCO, INC.	PER ASME Y14.5M-1994	SIZE SYSTEM A3 NX	DWG NO. J-H3-EM-68-100
DRAWN BY GGG/ADT		DATE 11JULY2012	SCALE NTS SHEET 1 OF 4

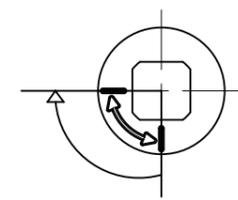
REVISION HISTORY			
REV	DATE	BY	DESCRIPTION
1	13NOV2017	CB1/VK	PRN: P2017-3021

1. USE ONLY MOUNTING HARDWARE SUPPLIED.
2. MAXIMUM TIGHTENING TORQUE FOR MOUNTING SCREWS 0.5 Nm.
3. PAWL SCREW INSTALLATION TORQUE 4 Nm MIN.
4. USE #1 POZIDRIV DRIVER WHEN INSTALLING MOUNTING SCREWS.



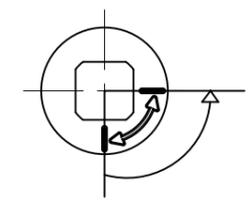
ROTATION LIMITER: (LEFT HAND MOUNTING SHOWN)
 SELECT THIN ROTATION LIMITER FOR STANDARD APPLICATIONS
 USE THICK ROTATION LIMITER FOR ADDITIONAL CLEARANCE AS
 REQUIRED ON MULTI POINT SYSTEMS
 ORIENTATION ACCORDING TO REQUIRED HANDLE OPERATION
 (LEFT OR RIGHT HANDED MOUNTING)

OPTION 1 FOR INSTALLATION
 OF ROTATION LIMITER
 - VIEWED FROM BACK-



LEFT HAND MOUNTING
 TO OPEN: TURN HANDLE 90°
 COUNTER CLOCKWISE IF VIEWED
 FROM FRONT

OPTION 2 FOR INSTALLATION
 OF ROTATION LIMITER
 - VIEWED FROM BACK-



RIGHT HAND MOUNTING
 TO OPEN: TURN HANDLE 90°
 CLOCKWISE IF VIEWED
 FROM FRONT

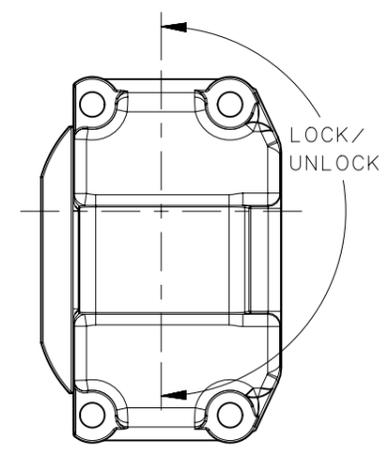
PAWL (ORDERED SEPARATELY):
 ORIENTATION ACCORDING TO
 REQUIRED HANDLE OPERATION
 (LEFT OR RIGHT HANDED MOUNTING)
 (LEFT HAND MOUNTING SHOWN)

TOP MOUNTING BRACKET

PAWL SCREW

POZIDRIV MOUNTING SCREW 14 LONG
 (SEE NOTE 4)

INSTALLATION OF BOTTOM MOUNTING BRACKET



OPERATION OF LOCK PLUG CORRESPONDS WITH
 ORIENTATION OF BOTTOM MOUNTING BRACKET

LEFT HAND MOUNT
 WHEN H3-61-55-33
 MULTI POINT SYSTEM
 IS USED.

RIGHT HAND MOUNT
 WHEN H3-61-56-33
 MULTI POINT SYSTEM
 IS USED.

BOTTOM MOUNTING BRACKET:
 ORIENTATION ACCORDING TO
 REQUIRED LOCK PLUG OPERATION
 (LEFT OR RIGHT HANDED MOUNTING)

POZIDRIV 4X MOUNTING
 SCREW 25 LONG
 (SEE NOTE 4)

CAUTION: SECURE WIRES SUCH THAT THEY DO NOT
 INTERFERE WITH LATCH CAM AND LOCK PLUG
 CHECK THAT THE WIRES ARE NOT PINCHED
 BETWEEN THE LATCH HOUSING AND PANEL

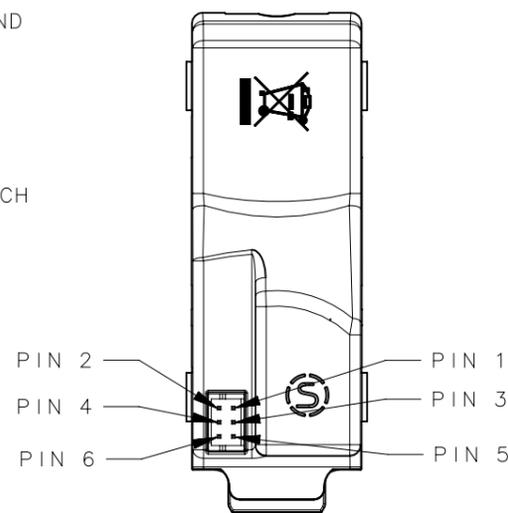
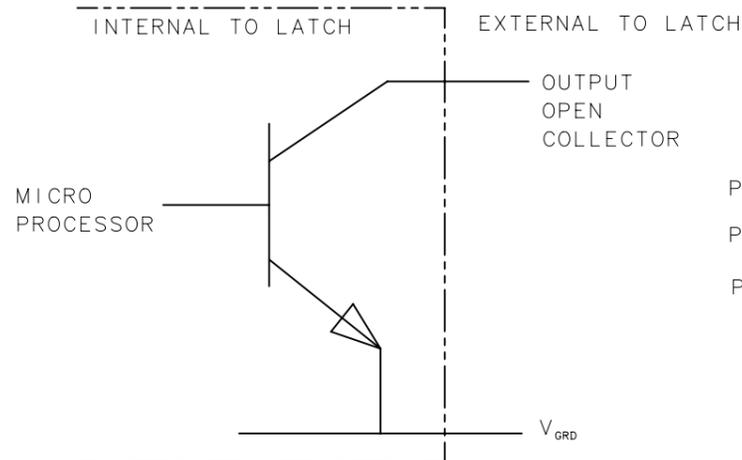
THIRD ANGLE PROJECTION	MILLIMETERS [IN]		 CONNECT · CREATE · INNOVATE
	TOLERANCES UNLESS OTHERWISE NOTED		
ALL DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.		DESCRIPTION H3-EM ELECTRONIC SWINGHANDLE WITH PROX READER WITH WIEGAND DATA OUTPUT	
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PER ASME Y14.5M-1994	DRAWN BY GGG/ADT	DATE 11JULY2012	SCALE 1:1
			SHEET 2 OF 4

ACTUATOR MODULE
ELECTRICAL SPECIFICATION:

- A. POWER: 12V TO 24V
 - OPERATING CURRENT: LESS THAN 200mA AT 12VDC WITH NO EXTERNAL MECHANICAL LOAD APPLIED TO HANDLE.
 - MAX CURRENT WITH STALLED ACTUATOR: 1A MAX AT 12VDC (STALL LIMITED TO 2 SECONDS)
 - STANDBY CURRENT: 25mA TYPICAL.
- B. CONTROL INPUT:
 - TO UNLOCK: SUPPLY 9VDC MINIMUM (DO NOT EXCEED SUPPLY VOLTAGE) FOR A MINIMUM OF 100 MILLISECONDS. THE LATCH WILL REMAIN UNLOCKED FOR AS LONG AS THE SIGNAL IS PRESENT OR A MINIMUM OF 3 SECONDS.
- C. OUTPUT:
 - OPEN COLLECTOR OUTPUT. RATING 9 TO 24VDC. 100mA MAX LOAD
 - CAUTION! TO PREVENT DAMAGE TO THE PRODUCT DO NOT EXCEED MAXIMUM LOADS STATED AND FOLLOW WIRING DIRECTIVES.
 - FOR OUTPUT SIGNAL DETAILS AND LED SEQUENCE SEE TRUTH TABLE.
- D. CONNECTIONS:
 - SIX POSITION CONNECTOR
 - HIROSE ELECTRIC CO LTD. PART NUMBER DF11-6DP-2DSA.
 - SEE PIN-OUT TABLE.

PIN	DESCRIPTION	NOTE
1	VGND	GROUND (MUST BE SAME AS PROX READER MODULE)
2	VSUPPLY	12 TO 24 VDC POWER SUPPLY INPUT (MAY BE CONNECTED TO PROX READER VCC INPUT)
3	N/C	NO CONNECT
4	CONTROL SIGNAL	COMMAND INPUT (9VDC UP TO SUPPLY VOLTAGE, 100 MILLISECONDS MINIMUM)
5	ELECTRONIC LOCK STATUS	OPEN COLLECTOR OUTPUT (RATED FOR VSUPPLY, 100mA MAX. LOAD)
6	MECHANICAL LOCK STATUS	OPEN COLLECTOR OUTPUT (RATED FOR VSUPPLY 100mA MAX. LOAD)

- E. WIRE HARNESS (NOT INCLUDED)
 SOUTHCO P/N: EA-W01-100 *, SEE ALSO J-EA-W01 FROM ACTUATOR MODULE TO STRIPPED AND TINNED END LENGTH 1000MM
 *CONTACT SOUTHCO FOR OTHER LENGTHS



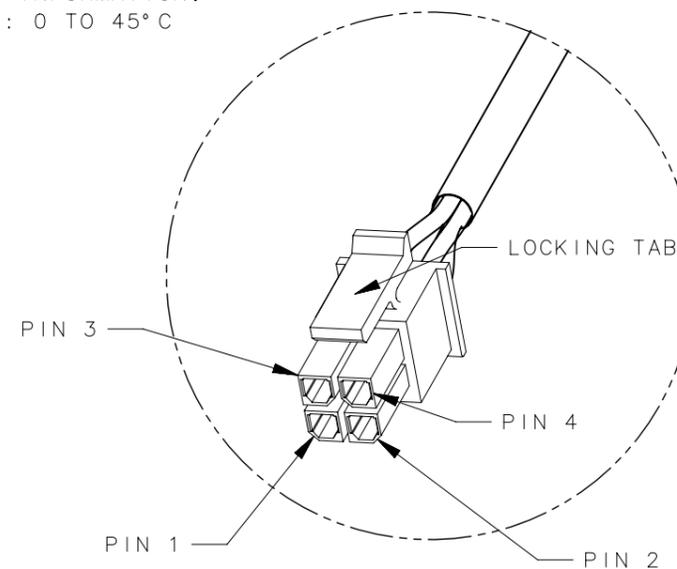
ACTUATOR PIN-OUT DIAGRAM (SEE NOTE D)

PROXIMITY READER MODULE
ELECTRICAL SPECIFICATION:

- F. - SUPPLY VOLTAGE (VCC): 12VDC TO 24VDC
 - OPERATING CURRENT: 20mA MAXIMUM (NO EXTERNAL DEVICES ATTACHED)
 - TRANSMIT FREQUENCY: 125kHz FSK
 - DATA SIGNAL VOLTAGE: 5VDC
 - DATA PULSE INTERVAL TIME: 40 MICRO-SECONDS
 - DATA SIGNAL DELAY: 2ms
- G. PROX READER CONNECTIONS:
 - 4 POSITION CONNECTOR
 - MOLEX, 3.0mm PITCH MICRO-FIT 3.0 RECEPTACLE HOUSING, DUAL ROW 4 CIRCUITS. MOLEX P/N: 43025-0400
 - MICROFIT 3.0 CRIMP TERMINAL, FEMALE. MOLEX P/N: 43030-0004
 - SEE PIN-OUT TABLE.

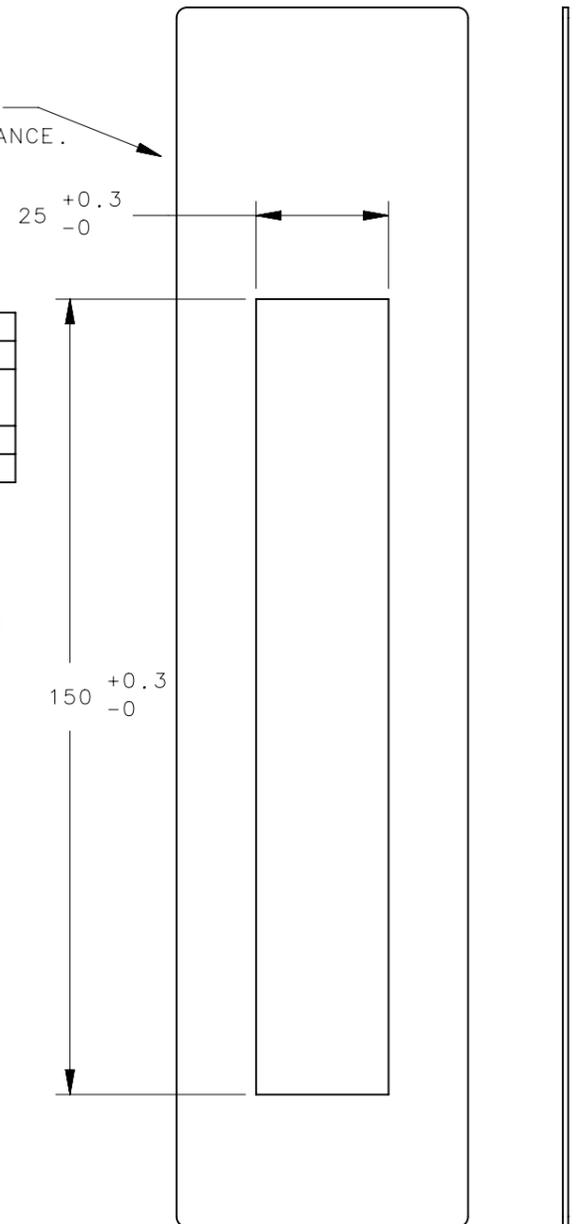
PIN	WIRE COLOR	DESCRIPTION	NOTE
1	BLACK	GND	GROUND (MUST BE SAME AS ACTUATOR PORTION)
2	RED	VCC	12 TO 24VDC POWER SUPPLY INPUT (MAY BE CONNECTED TO ACTUATOR MODULE V _{SUPPLY} INPUT)
3	GREEN	DATA0	DATA0 OUTPUT
4	WHITE	DATA1	DATA1 OUTPUT

- H. WIRE HARNESS (NOT INCLUDED):
 - SOUTHCO P/N: EA-W23-503 *, SEE ALSO J-EA-W23-X03 FROM PROXIMITY MODULE TO STRIPPED AND TINNED LENGTH 5000MM.
 - SOUTHCO P/N: EA-W23-503-83 *, SEE ALSO J-EA-W23-X03-83 FROM PROX MODULE TO EA-P1-01X (PIN/PROX CONTROLLER) LENGTH 5000MM
 *CONTACT SOUTHCO FOR OTHER LENGTHS AND MODELS
- I. SEE H3-EM-68-100 ELECTRONIC SWINGHANDLE OPERATING INSTRUCTIONS FOR MORE INFORMATION.
- J. OPERATING TEMPERATURE: 0 TO 45°C



PROX READER PIN-OUT DIAGRAM (SEE NOTE G) SCALE 2:1

SEE SHEET 1, NOTE 2 FOR FRAME EDGE DISTANCE.



PANEL THICKNESS 1 TO 2.5
PANEL PREPARATION

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I	13NOV2017	CB1/VK	PRN: P2017-3021

THIRD ANGLE PROJECTION			
MILLIMETERS [IN]			
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DRAWN BY GGG/ADT		SCALE 1:1	SHEET 3 OF 4

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LATCH STATUS DEFINITION

LATCH STATUS	LATCH LED	PIN 6 OUTPUT HANDLE LOCK	PIN 5 OUTPUT ELECTRONIC LOCK	PIN 4 CONTROL INPUT	NOTE
SECURED	BLUE	OPEN COLLECTOR	OPEN COLLECTOR	GND	ENCLOSURE SECURED- ACCESS DENIED
ELECTRONICALLY RELEASED	BLUE / MAGENTA FLASHING	OPEN COLLECTOR	LOW	V _{ss}	ENCLOSURE READY FOR ACCESS
MECHANICALLY RELEASED	BLUE FLASHING LOW	LOW	LOW	V _{ss}	ACCESS GAINED - HANDLE LIFTED OR MECHANICALLY UNLOCKED
		LOW	OPEN COLLECTOR	GND	ACCESS GAINED - HANDLE LIFTED - ELECTRONIC LOCK CLOSED
HANDLE NOT FULLY CLOSED	BLUE / RED FLASHING	OPEN COLLECTOR	LOW	GND	INTERIM STATES ONLY DURING CLOSING OF HANDLE
		LOW	LOW	GND	

ELECTRONIC SWINGHANDLE MATERIALS

COMPONENT	MATERIAL	FINISH	NOTE
H3-EM-68-LLL			
CIRCUIT BOARD	DETAILS ON REQUEST	DETAILS ON REQUEST	
MOTOR	DETAILS ON REQUEST	DETAILS ON REQUEST	
GEAR SHAFT	STAINLESS STEEL	NATURAL	
WORM GEAR	PA66 1300S	NATURAL	
PINION GEAR	POM M90-44	BLACK	
SPUR GEAR	POM M90-44	BLACK	
GEAR RETAINER	PC (LEXAN V0)	CLEAR	
MOTOR COVER	PC ABS (UL94- V0)	BLACK	
LATCH BODY	30% GF NYLON (UL94- V0)	BLACK (A&B SURFACES VD136)	
HANDLE MOULDING	30% GF NYLON (UL94- V0)	BLACK (A&B SURFACES VD136)	
LIGHT PIPE	PC (LEXAN V0)	CLEAR	
BOTTOM MOUNTING BRACKET	30% GF NYLON (UL94- V0)	BLACK	
SLIDE	30% GF NYLON (UL94- V0)	WHITE	
HANDLE SHAFT	DIE CAST ZINC	ZINC PLATE BRIGHT CHROMATE	
ROTATION LIMITER	DIE CAST ZINC	ZINC PLATE BRIGHT CHROMATE	2 SIZE OPTIONS SUPPLIED
TOP MOUNTING BRACKET	30% GF NYLON (UL94- V0)	BLACK	
MOUNTING SCREW 25 LONG	STEEL	ZINC PLATE + BRIGHT CHROMATE	INSTALL WITH #1 POZIDRIV DRIVER
MOUNTING SCREW 14 LONG	STEEL	ZINC PLATE + BRIGHT CHROMATE	INSTALL WITH #1 POZIDRIV DRIVER
OUTPUT GEAR MOULDING	POM M90-44	BLACK	
REFLECTOR	POM M90-44	OPAQUE WHITE	
CONNECTING LEAD	DETAILS ON REQUEST	DETAILS ON REQUEST	ORDER SEPERATELY
DIN LOCKPLUG	DETAILS ON REQUEST	DETAILS ON REQUEST	OPTIONAL WITHOUT LOCKPLUG
LOCK PLUG RETAINING SCREW	STEEL	ZINC PLATE + BRIGHT CHROMATE + SEALER	
SHAFT PIN	SAE 30302/30304	PLAIN, OILED	
O-RING	BLACK NBR RUBBER	GREASED	
PAWL SCREW	STEEL	ZINC PLATE + BRIGHT CHROMATE	
PAWL	STEEL	ZINC PLATE + BRIGHT CHROMATE	ORDER SEPERATELY
PROXIMITY READER MODULE	DETAILS ON REQUEST	DETAILS ON REQUEST	
BLANK PLUG	DIE CAST ZINC	CHROME PLATE	OPTIONAL
SLIDE SPRING	302 STAINLESS STEEL	NATURAL	

THIRD ANGLE PROJECTION 	 CONNECT • CREATE • INNOVATE		
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			SHEET 4 OF 4