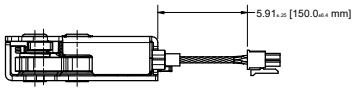
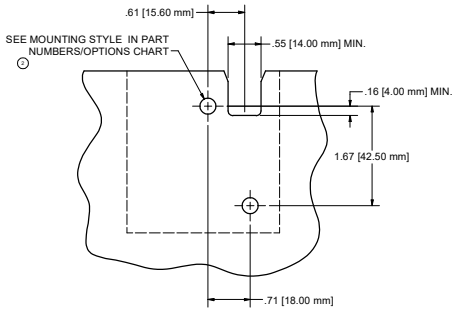
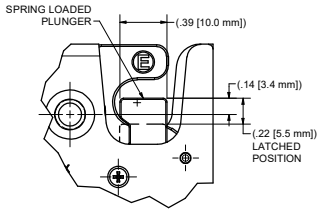
CONFIDENTIAL NOTICE: This drawing and the designs, specifications , and engineering information hereon are the property of Eberhard Manufacturing Company and are not to be disseminated or reproduced without express written consent. This drawing is loaned in confidence and then only for the consideration of the matter disclosed hereon. In accepting loan of this drawing, recipient agrees to keep it and the matter disclosed hereon in confidence and not to use or permit their use in any way detrimental to Eberhard Manufacturing Company, (A division of The Boston Company, 29304 Clarke Road, Cleveland, Ohio, 44140-3512 © 2022 EBERHARD MFG. CO.

REVISION HISTORY					
REV	DESCRIPTION	EN	DATE	REV. BY	APVD. BY
	RELEASED, WAS 11-M12479 SHEET 1 OF 3	EN 6018	9/3/2021	SAA	LSW
1	REVISED PART NUMBER & NAME, REMOVED MOUNTING OPTIONS CHART, ADDED PART NUMBER/OPTIONS CHART, REVISED/ADDED NOTES & VIEW, REVISED VIEWS TO DETAIL	EN 6039	2/18/2022	SAA	LSW
2	REVISED VIEW TO DETAIL, REVISED DIMENSIONS/NOTES	EN 6048	4/22/2022	SAA	MR
3	REVISED PART NUMBER	EN 6064	8/12/2022	SAA	MR
4	REVISED VIEW TO DETAIL, REVISED DIMENSION	EN 6109	7/14/2023	SAA	MR
5	REVISED VIEW TO DETAIL	EN 6125	11/10/2023	SAA	MR

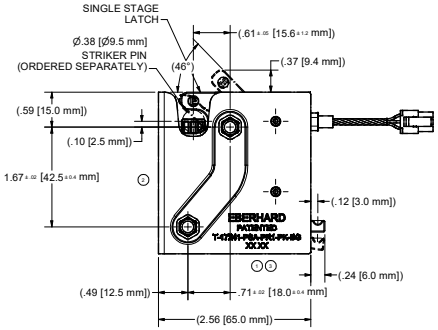


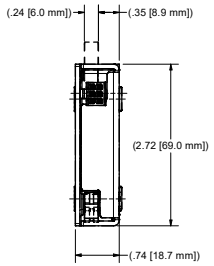


SUGGESTED OUTLINE OF CUTOUT

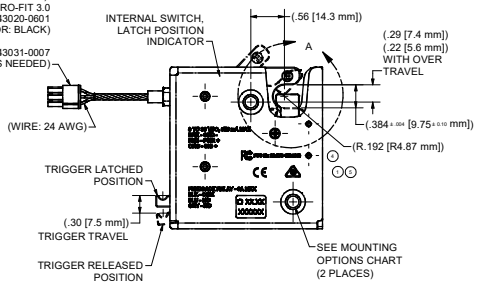


DETAIL A
SCALE 2 : 1





REFERENCE MATING MOLEX CONNECTOR (NOT SUPPLIED):
MOLEX MICRO-FIT 3.0
PLUG HOUSING: PART NUMBER: 43020-0601
(DUAL ROW, 6 CIRCUITS, COLOR: BLACK)
MALE CRIMP TERMINAL: PART NUMBER: 43031-0007
(QTY. 6 TERMINALS NEEDED)

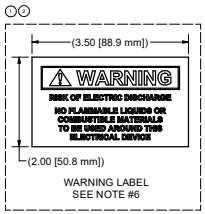


NOTES:
1. 1) USE GRADE 8 / PROPERTY CLASS 10.9 FASTENERS FOR MOUNITING. MAXIMUM MOUNTING TORQUE: 57.5 in.-lbs. [6.50 N.m].
2. 2) MAX LOAD RATING:
3. 3) MAX LOAD RATING FOR ELECTRICAL RELEASE (ONE TIME):
4. 4) FOR ELECTRICAL SPECIFICATIONS, SEE DRAWING T-17241-PSA-PR1-PK CHART SHEET 2 OF 3.
5. 5) THIS PRODUCT IS RoHS COMPLIANT.
6. 6) ELECTRONIC SINGLE STAGE ROTARY ASSEMBLY SHIPPED IN A SECURED POLY BAG WITH WARNING CARD.
7. 7) FINISH: (BG) BEARING GREASE.

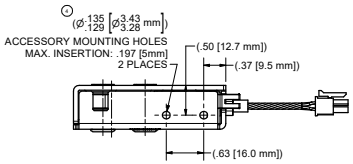
1

PART NUMBERS/OPTIONS						
PART NUMBER	RELEASE TYPE	MANUAL TRIGGER	MOUNTING STYLE	STRIKER PLUNGER	FEEDBACK RELAY	CONNECTOR
T-17241-PSA-PR1-PK-BG	POWER RELEASE	SIDE TRIGGER	1/4-20 MTG. THREADS	YES	YES	YES
T-17241-PSB-PR1-PK-BG	POWER RELEASE	SIDE TRIGGER	M6X1 MTG. THREADS	YES	YES	YES
17241-PSC-PR1-PK-BG	POWER RELEASE	SIDE TRIGGER	Ø.26 THRU HOLE	YES	YES	YES

1 2

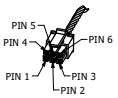


WARNING LABEL
SEE NOTE #6



COLOR CODE TO PIN CONNECTION

USE THE FOLLOWING WIRE COLORS TO CONNECT TO THE FOLLOWING PIN NUMBERS



WIRE COLOR, ASSIGNMENTS		
PIN-OUT NUMBER	WIRE COLOR	ASSIGNMENT DESCRIPTION
1	BROWN	GROUND (-)
2	RED	POWER (+12V TYPICAL)
3	ORANGE	CONTROL SIGNAL (+12V TYPICAL)
4	BLACK	SWITCH COMMON
5	BLUE	SWITCH N.O. CONTACT
6	GRAY	SWITCH N.C. CONTACT

PATENTED
http://www.eberhard.com/ip
1 OTHER US & FOREIGN PATENTS PENDING

WARNING
THIS PRODUCT IS NOT CERTIFIED FOR FMVSS 208 OR PERSONAL RESTRAINT APPLICATIONS

CUSTOMER PRINT
SHEET 1 OF 3 1

EBERHARD MANUFACTURING CO.
DIVISION OF THE BOSTON COMPANY
CLEVELAND, OH 44140-3512

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5-2009	
UNLESS MEASUREMENT: INCH	DATE: 9/1/2021
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE AS FOLLOWS:	DWN. BY: SAA
ANGLES: ± 2°	SCALE: 1 : 1
2 PLACE DEC. ± .03	CHK. BY:
3 PLACE DEC. ± .015	
ALL HOLES: ± .005	

NAME:	ELECTRONIC SINGLE STAGE ROTARY ASSEMBLY, SIDE TRIGGER, WITH THREADED DIR NO-N-THREADED SPACERS & SPRING LOADED PLUNGER, POWER RELEASE
PART NUMBER	CHART
MATERIAL: ----------	T-17241-PSA-PR1-PK

C:\Working_Folder\Archive\Proj\11\7XXX\17241\T-17241-PSA-PR1-PK CHART SH1.idw

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REVISION HISTORY					
REV	DESCRIPTION	EN	DATE	REV. BY	APVD. BY
	RELEASED, WAS 11-M12479 SHEET 2 OF 3	EN 6018	9/3/2021	SAA	LSW

NOTES:

1) MATERIAL AND FINISH:
FRONT/BACK PLATES & SPACERS: STEEL, ZINC PLATED.
LATCH & PAWL, POWDERED METAL, FLUOROCARBON COATED.
ELECTRICAL ACTUATOR MODULE: PLASTIC, ZINC DIE CAST, POWDERED METAL & STAINLESS STEEL COMPONENTS.

2) ELECTRICAL SPECIFICATIONS:
OPERATING VOLTAGE: 8 TO 30 VDC
TYPICAL OPERATING CURRENT: LESS THAN 250 mA AT 12 VDC
PEAK/STALL OPERATING CURRENT: 500 mA MAX AT 12 VDC
STANDBY CURRENT LESS THAN 150 MICROAMPS
CONTROL SIGNAL HIGH (UNLOCK COMMAND): 8 TO 30 VDC, 25 mA MAX
TRANSIT TIME TO RELEASE: 1 SECOND MAX.
OPERATING TEMPERATURE RANGE: -20°C TO +70°C

3) ELECTRICAL CONNECTIONS:
A BASIC SWITCH CONTROL ELECTRICAL CONNECTION DIAGRAM IS PROVIDED FOR REFERENCE. CONSULT WITH AN EBERHARD REPRESENTATIVE FOR ADDITIONAL ELECTRICAL CONNECTION INFORMATION.
- ► CONNECT POWER, GROUND AND CONTROL SIGNAL WIRES TO AN APPROPRIATE DC POWER SUPPLY.
- ► A DC POWER SUPPLY CAPABLE OF SUPPLYING 1 AMP @ 12VDC MINIMUM IS RECOMMENDED.
- ► POWER MUST BE AVAILABLE TO OPERATE THE ROTARY LOCK ASSEMBLY AND MUST REMAIN AVAILABLE DURING THE FULL TRANSIT TIME OF THE ASSEMBLY DURING LOCKING OR UNLOCKING.

⚠ CAUTION: ROTARY LOCK ASSEMBLY CAN BE DAMAGED IF WIRED INCORRECTLY, OR IF IMPROPER VOLTAGE IS APPLIED.

WIRE COLOR/CONNECTOR PIN ASSIGNMENT:
PIN 1: BROWN: GROUND (-)
PIN 2: RED: POWER (+12 V TYPICAL)
PIN 3: ORANGE: CONTROL SIGNAL (+12 V TYPICAL)
PIN 4: BLACK: RELAY COMMON (OPTIONAL)
PIN 5: BLUE: RELAY N.O. CONTACT (OPTIONAL)
PIN 6: GREY: RELAY N.C. CONTACT (OPTIONAL)

4) ELECTRICAL OPERATION(S):
TO RELEASE THE ROTARY LOCK ASSEMBLY: PROVIDE THE FOLLOWING CONTROL SIGNAL TO THE ORANGE WIRE OR CONNECT PIN 3.
- ► PROVIDE CONSTANT CONNECTION 8 TO 30 VDC (+12VDC TYPICAL) TO POWER AND GROUND
- ► PROVIDE 8 TO 30 VDC (CONTROL SIGNAL HIGH) FOR A MINIMUM OF 50 MILLISECONDS

ALTERNATE OPERATING MODE: RELEASE ON POWER UP:
- ► CONNECT POWER AND GROUND, IF ROTARY LOCK ASSEMBLY IS IN THE CLOSED (LATCHED POSITION), ASSEMBLY WILL RELEASE UPON POWER UP.
- ► POWER MUST BE AVAILABLE FOR A MINIMUM OF 1 SECOND.
- ► POWER MUST BE REMOVED TO RE-ACTIVATE THE ASSEMBLY.

I-LOCK™ BLUE: (iOS APP STORE, GOOGLE PLAY STORE)
- ► PROVIDE CONSTANT CONNECTION 8 TO 30 VDC (TYPICAL +12 VDC) TO POWER AND GROUND
- ► ACTIVATE THE ROTARY LOCK ASSEMBLY WITH I-LOCK™ BLUE APP VIA BLUETOOTH® WIRELESS
- ► OVER THE AIR UPDATES ARE PROVIDED VIA I-LOCK™ BLUE APPLICATION

5) "LATCH CLOSED" POSITION FEEDBACK RELAY AVAILABLE:
- ► NORMALLY OPEN CONTACT (BLUE WIRE) PROVIDES SWITCH CLOSURE WHEN LATCH CAM IS CLOSED.
- ► NORMALLY CLOSED CONTACT (GRAY WIRE) PROVIDES SWITCH OPEN WHEN LATCH CAM IS CLOSED.
- ► SWITCH COMMON (BLACK WIRE)

SWITCH RATING: 4A AT 220 VDC/ 250 VAC MAX. 3A CONTINUOUS LIMIT.

⚠ WARNING: SWITCH CIRCUIT IS NOT FUSED OR ELECTRICALLY PROTECTED. USE APPROPRIATE EXTERNAL PROTECTION. WIRE SWITCH CORRECTLY PER ELECTRICAL CONNECTION DIAGRAM AND DO NOT SHORT CIRCUIT. A SHORT CIRCUIT CAN DAMAGE THE ROTARY LOCK ASSEMBLY AND MAY POSE AN ELECTRICAL FIRE HAZARD.

6) WIRE HARNESS CONNECTOR:
MOLEX, SERIES MICRO-FIT 3.0
- ► CONNECTOR RECEPTACLE 6 POSITION 3mm VERTICAL DUAL: MOLEX P/N: 43025-0600
- ► CONTACTS: FEMALE CRIMP TERMINAL (SOCKET) MOLEX P/N: 46235-0001
- ► WIRE: 24 AWG

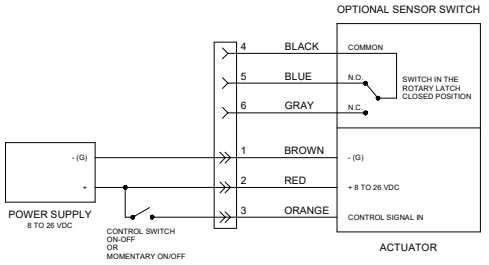
7) MATING WIRE HARNESS CONNECTOR (NOT SUPPLIED)
MOLEX, SERIES MICRO-FIT 3.0
- ► CONNECTOR PLUG 6 POSITION 3mm VERTICAL DUAL: MOLEX P/N: 43020-0601
- ► RECOMMENDED CONTACTS (6 REQUIRED): MALE CRIMP TERMINAL (PIN) MOLEX P/N: 43031-0007
- ► RECOMMENDED WIRE GAGE: 24 AWG

8) ROTARY LOCK ASSEMBLY MOUNTING:
- ► MOUNT THE ROTARY LOCK ASSEMBLY SECURELY USING (2) SCREWS IN THE MOUNTING HOLES PROVIDED (SCREWS NOT PROVIDED)
- ► SEE MOUNTING OPTIONS CHART

9) MECHANICAL OPERATION:
THE ROTARY LOCK ASSEMBLY IS PROVIDED WITH A MECHANICAL TRIGGER TO RELEASE THE LATCH.
THE MAXIMUM TRAVEL OF THE TRIGGER IS .30 [7.5 mm]. THE TRIGGER MOVES THROUGH ITS FULL TRAVEL DURING ELECTRICAL OPERATION OF THE LATCH.

⚠ CAUTION: IT IS IMPORTANT TO NOT OBSTRUCT THE MOTION OF THE TRIGGER DURING ELECTRICAL OPERATION TO PREVENT LONG-TERM DAMAGE TO THE ELECTRICAL COMPONENTS IN THE ROTARY LOCK ASSEMBLY.

10) STRIKER PIN ASSEMBLY SOLD SEPARATELY, CONSULT FACTORY FOR ADDITIONAL INFORMATION.



COLOR CODE TO PIN CONNECTION

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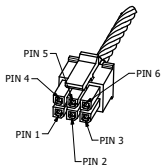

WIRE COLOR, ASSIGNMENTS		
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3	ORANGE	CONTROL SIGNAL (+12V TYPICAL)
4	BLACK	SWITCH COMMON
5	BLUE	SWITCH N.O. CONTACT
6	GRAY	SWITCH N.C. CONTACT

MOUNTING OPTIONS			
PART NUMBER	THREADS	FASTENER	MAXIMUM MOUNTING TORQUE
T-17241	1/4-20 UNC	GRADE 8	57.5 in.-lbs. [6.50 N.m]
T-17241-M	M6x1	PROPERTY CLASS 10.9	57.5 in.-lbs. [6.50 N.m]

CUSTOMER PRINT
SHEET 2 OF 3

PATENT PENDING

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5-2009		
UNLESS MEASUREMENT: INCH		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE AS FOLLOWS:		
ANGLES	± 2°	± 2°
2 PLACE DEC.	± .03	± .76
3 PLACE DEC.	± .015	± .38
ALL HOLES	± .005	± .13

DATE: 9/1/2021
DWN. BY: SAA
SCALE: 1:1
CHK. BY:

EBERHARD MANUFACTURING CO.
DIVISION OF
THE EASTERN COMPANY
CLEVELAND, OH 44149-6712

NAME: ELECTRICAL DRAWING
ELECTRONIC SINGLE STAGE ROTARY ASSEMBLY

MATERIAL: ----------
PART NUMBER / CHART: T-17241

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