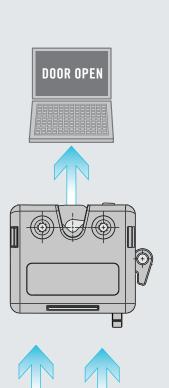
22

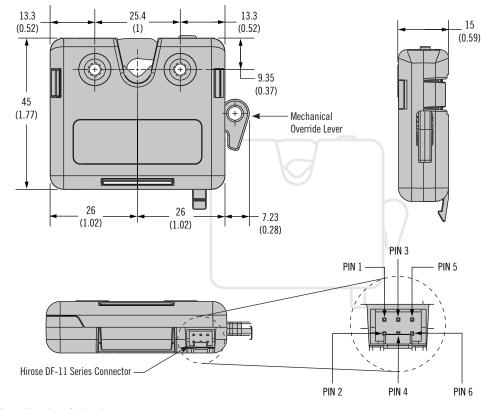
Services Of A Mary

R4-EM-05 Series Electromechanical Rotary Latch

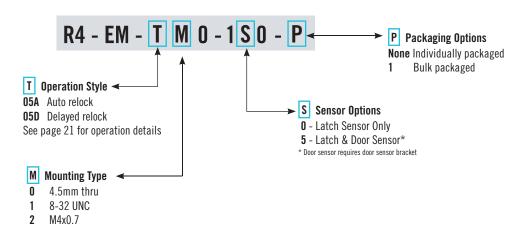
Compact Size · Door Sense Option Electronic access with internal motor control

- Push-to-close, electronic release
- Compact design
- Sensors ensure secure latch & door
- Latch releases reliably even under high load
- Integrated mechanical over-ride



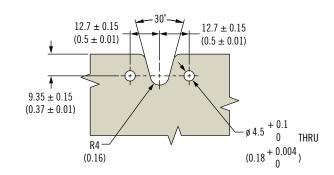


Part Number Selection



Installation

Panel Preparation

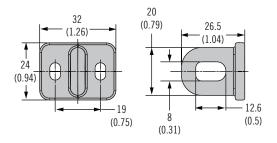


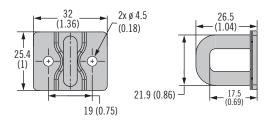


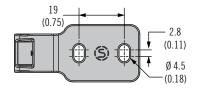
Optional Striker and Door Sensor Bracket

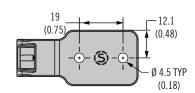
Part Number	
Molded Striker	R4-0-61336
Door Sensor Bracket	R4-99-966

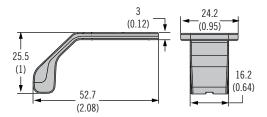
Part Number	
Wire Form Striker	R4-0-71060
Door Sensor Bracket	R4-99-966-1

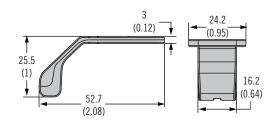












Electronic Actuators See page 48 Mechanical Actuators See page 34



Material and Finish

Housing: PC/ABS

Latch frames, Pivot pins, Cam and

Trigger: Steel, zinc plated

Striker: Steel, zinc plated or Glass-filled nylon, black

Door Sensor Bracket: PC/ABS, Magnet:

Neodymium

Recommended Operating Voltage:

5 to 12 VDC

Typical Operating Current:

Less than 500mA

Latch Connector PIN Assignment

PIN 1: Ground (-)

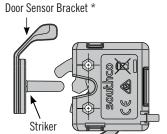
PIN 2: Power (+)

PIN 3: Not connected

PIN 4: Control signal

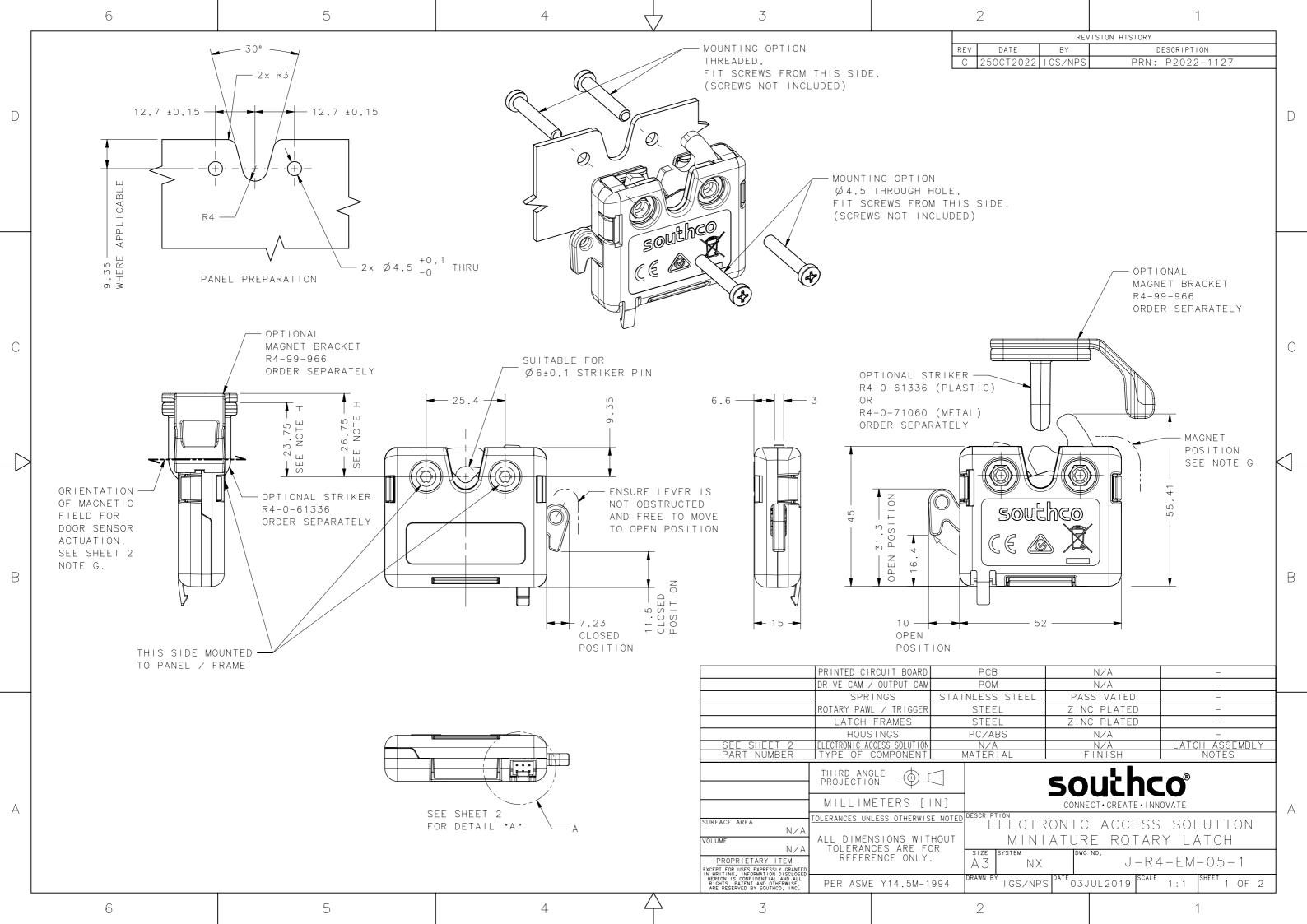
PIN 5: Latch status

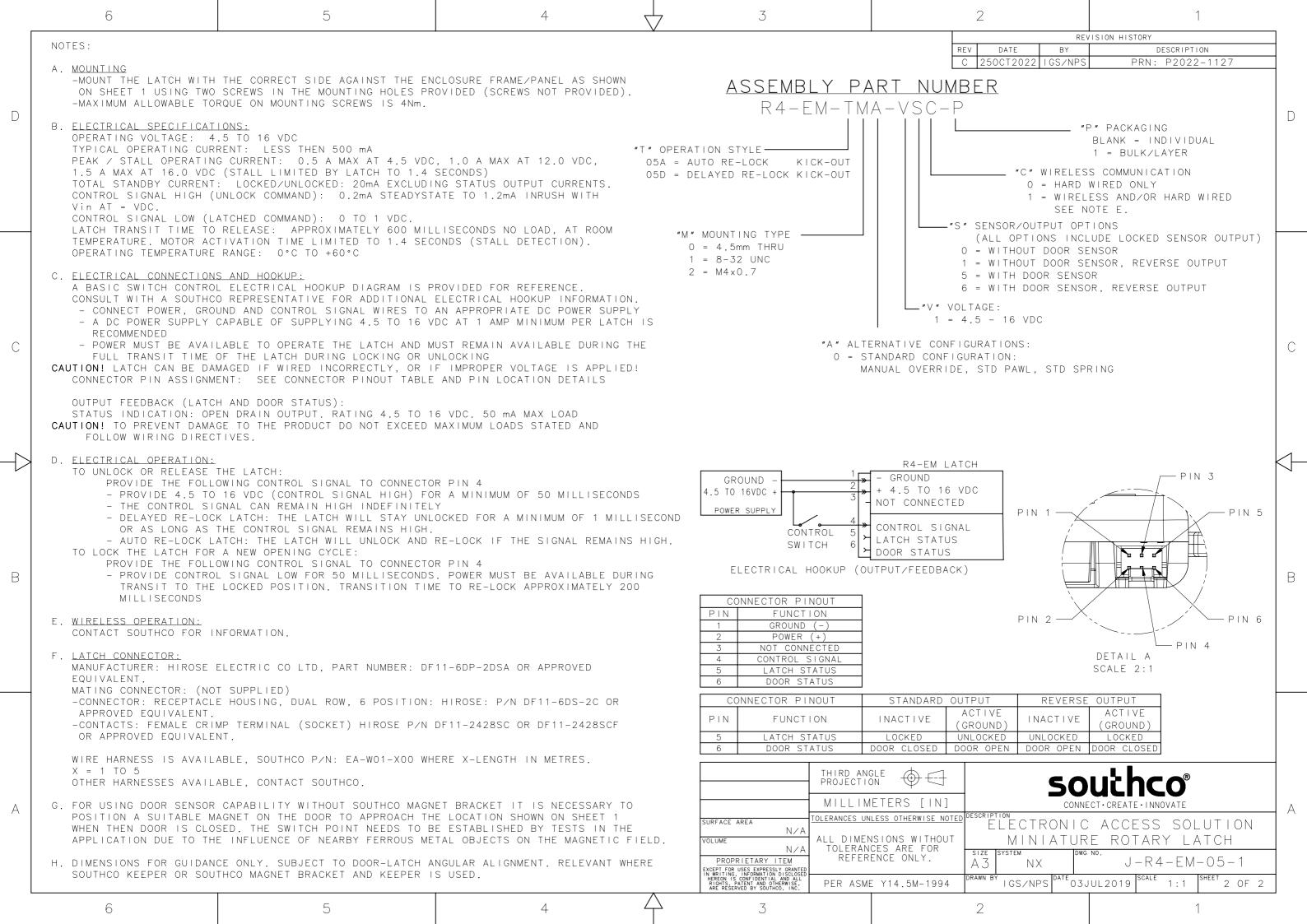
PIN 6: Door status



* Door sensor bracket required for door sense capability







5 2 6 3 REVISION HISTORY DATE DESCRIPTION B 07SEP2022 IGS/SKB PRN: P2022-1127 SOUTHCO PERFORMANCE GUIDELINES \square THE PERFORMANCE GUIDELINES SHOWN ON THIS PAGE ARE SUPPLIED AS A GENERAL GUIDE ONLY, AS CONDITIONS VARY WITH EACH APPLICATION AND METHOD OF INSTALLATION. STRENGTH DATA GIVEN IS FOR FAILURE OF THE PRODUCT OR FOR SUFFICIENT DEFORMATION TO MAKE THE PRODUCT INOPERABLE. NO SAFETY FACTOR HAS BEEN APPLIED. IT'S RECOMMENDED THAT THE USER REQUEST A PRODUCT SAMPLE FOR TESTING TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURPOSE INTENDED AND THE USER'S PARTICULAR APPLICATION. PERFORMANCE VALUES FOR R4-EM-05D20-150 SEE J-R4-EM-05-1. 1. TESTING PERFORMED ON R4-EM-05D20-150. 2. TENSILE FORCES (DIRECTION 1) ARE APPLIED AT THE NOMINAL LATERAL POSITION (ZERO MISALIGNMENT). 3. MAXIMUM TENSILE FORCE (DIRECTION 1) ON THE CAM THAT THE LATCH CAN RELEASE (OPEN) ELECTRICALLY ONE TIME: 195 N (44 lbf) 4. AVERAGE ULTIMATE TENSILE FORCE (DIRECTION 1) ON THE CAM BEFORE LATCH FAILURE: DIRECTION 1 LATCH CAM -4720 N (1061 lbf). THE LATCH DOES NOT RELEASE BUT DEFORMATION MAY OCCUR TENSILE FORCES AFFECTING FUNCTIONALITY. APPLIED TO CAM 5. AVERAGE TENSILE FORCE (DIRECTION 2) REQUIRED ON THE MECHANICAL OVERRIDE TRIGGER TO OPERATE (OPEN) THE LATCH MANUALLY WITH A TENSILE FORCE ON THE CAM: DIRECTION 2 AVERAGE FORCE TO OPERATE LATCH WITH MECHANICAL OVERRIDE VS. LATCH CAM LOAD FORCES REQUIRED 100 N 200 N 300 N 400 N TO OPERATE LATCH FORCE 1 (N) ON CAM (22.48 lbf) (44.96 lbf) (67.44 lbf) (89.92 lbf) (112.40 lbf)MANUALLY FORCE 2 (N) ON 13.5 N 22.5 N 30.9 N 38.9 N 48.3 N MECHANICAL OVERRIDE (3.04 lbf)(5.06 lbf)(6.95 lbf)(8.75 lbf)(10.86 lbf) 6. AVERAGE CLOSING FORCE 1 ON CAM 8.3 N (1.9 lbf) BASED ON ONE CYCLE. 7. CYCLE LIFE WITH 20 N (4.5 lbf) TENSILE FORCE (DIRECTION 1) FOR R4-EM-05D20-150 TOTAL NUMBER OF CYCLES 50000 WITH TEST PROFILE AS FOLLOWS: MECHANICAL OVERRIDE CHAMBER TEMPERATURE 0°C: 5000 TRIGGER CHAMBER TEMPERATURE 60°C: 5000 AMBIENT TEMPERATURE: 40000 REFERENCE FOR SOUTHCO INTERNAL USE ONLY: THIRD ANGLE PROJECTION trR4-49439 ITEM 3 MILLIMETERS [IN] CONNECT · CREATE · INNOVATE trR4-49440 ITEM 4 ESCRIPTION OLERANCES UNLESS OTHERWISE NOTE SURFACE AREA R4-EM-05-1 trR4-49437 | TEM 5 ALL DIMENSIONS WITHOUT ELECTRONIC ACCESS SOLUTION trR4-49438 | TEM 6 TOLERANCES ARE FOR REFERENCE ONLY. PROPRIETARY ITEM TD-R4-EM-05-1-J trR4-49275 | TEM 7 NX EXCEPT FOR USES EXPRESSLY GRANTE IN WRITING, INFORMATION DISCLOSE HEREON IS CONFIDENTIAL AND ALL RIGHTS, PATENT AND OTHERWISE, ARE RESERVED BY SOUTHCO, INC. SHEET 1 OF 1 PER ASME Y14.5M-1994 IGS ¹20MAY2021 1:1 5 3 2 6