

DUAL ENTRY SOLENOID KEY OPERATED SAFETY INTERLOCK NOMENCLATURE

GK

BODY / INDICATOR		CONDUIT / SEAL		BASIC		HEAD		KEY		TYPE / OVER-RIDE		SOLENOID VOLTAGE		MODIFICATION CODE	
L	HEAD TO LEFT - WITH INDICATORS	A	1/2 NPT - VITON SEALS	2	2 SNAP ACTION DPDT	L	OPENING TO FRONT AND TOP	6	STRAIGHT	A	SOLENOID UNLOCK WITH SCREWDRIVER	1	12 VDC	F04	
R	HEAD TO RIGHT - WITH INDICATORS	B	PG 13.5 - VITON SEALS	3	2 SLOW ACTING SPDT BBM	M	OPENING TO RIGHT AND TOP	7	90 DEGREE		SLOT OVER-RIDE	2	24 VDC	F05	
F	HEAD TO LEFT - WITHOUT INDICATORS	C	20 MM - VITON SEALS	6	SLOW ACTING 2 NC	N	OPENING TO BACK AND TOP	8	UP - DOWN, SPRING LOADED	B	SOLENOID UNLOCK WITHOUT OVER-RIDE	3	48 VDC	FW	
G	HEAD TO RIGHT - WITHOUT INDICATORS	D	PF 1/2 - VITON SEALS	10	SLOW ACTING 4 NC	P	OPENING TO LEFT AND TOP	9	SIDE - SIDE, SPRING LOADED	S	SOLENOID LOCK WITH SCREWDRIVER	4	120 VAC		
		E	1/2 NPT - BUNA-N SEALS	12	SLOW ACTING 2 NC - 1 NO BBM			X	NO KEY	T	SLOT OVER-RIDE	6	240 VAC		
		F	PG 13.5 - BUNA-N SEALS	14	SLOW ACTING 2 NC - 2 NO BBM						SOLENOID LOCK WITHOUT OVER-RIDE				
		G	20 MM - BUNA-N SEALS	15	SLOW ACTING 2 NC - 2 NO BBM - GOLD										
		H	PF 1/2 - BUNA-N SEALS	16	SLOW ACTING 3 NC - 1 NO BBM										
				30	2 SLOW ACTING 4 NC - GOLD										
				32	2 SLOW ACTING 2 NC - 1 NO BBM - GOLD										
				34	2 SLOW ACTING 2 NC - 2 NO BBM - GOLD										
				36	2 SLOW ACTING 3 NC - 1 NO BBM - GOLD										
				40	2 SLOW ACTING 4 NC										
				42	2 SLOW ACTING 2 NC - 1 NO BBM										
				44	2 SLOW ACTING 2 NC - 2 NO BBM										
				46	2 SLOW ACTING 3 NC - 1 NO BBM										

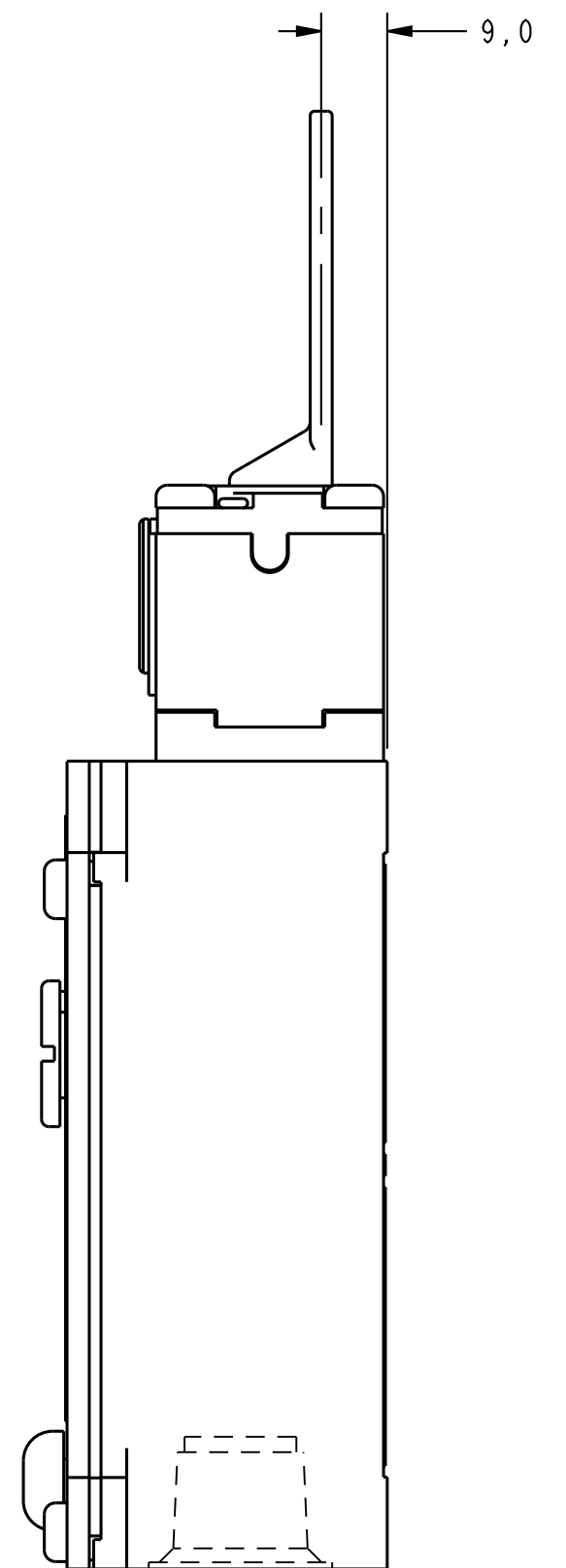
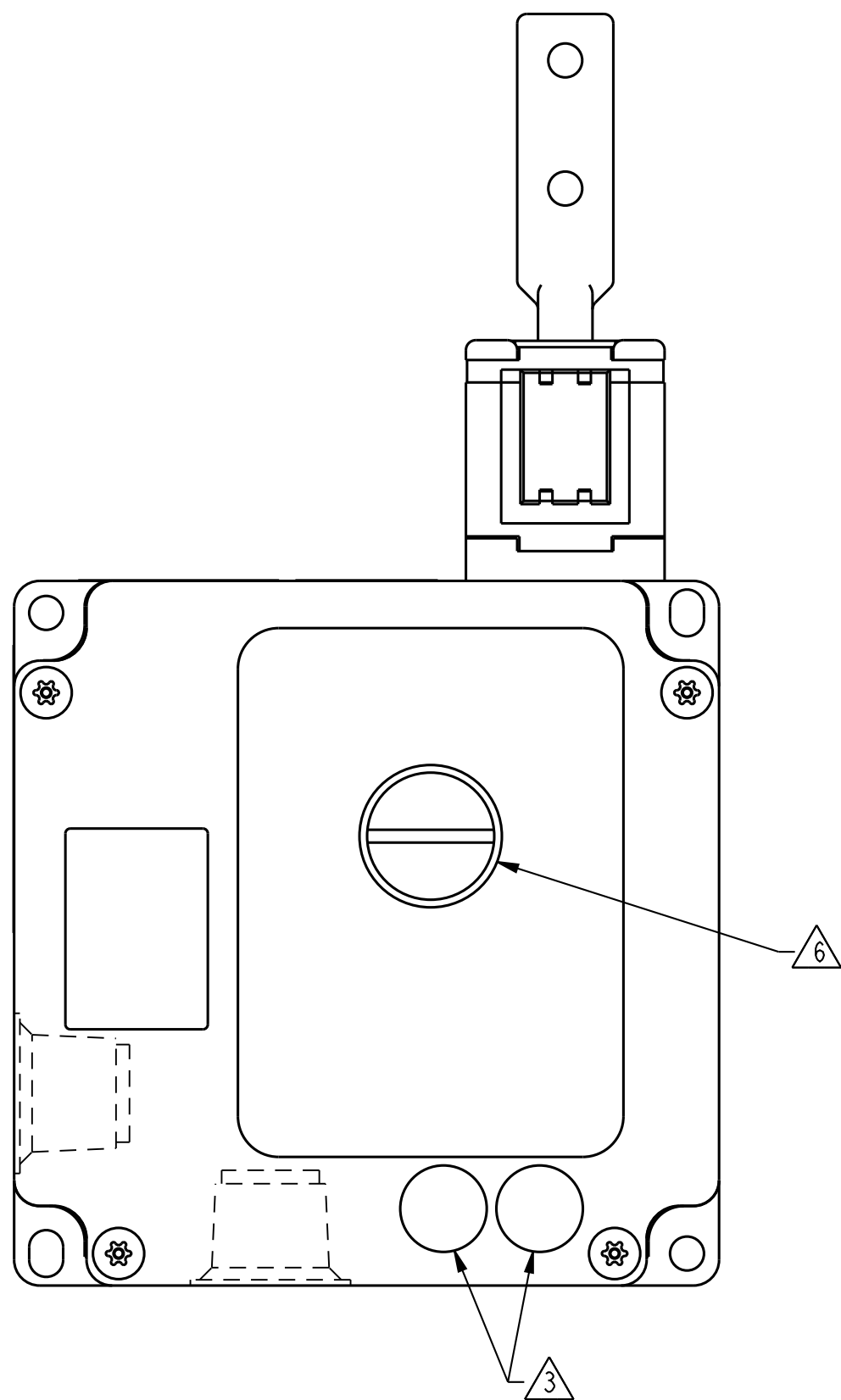
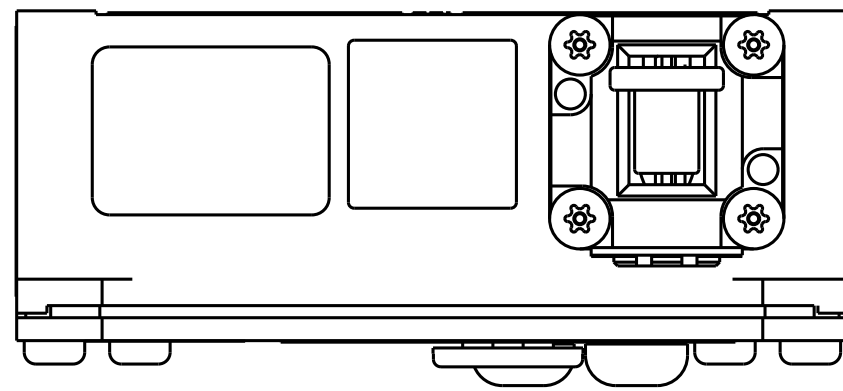
NOTES

- 1 - ZINC DIECAST BODY AND HEAD WITH STEEL COVER. BODY, HEAD AND COVER FINISHED WITH EPOXY PAINT
- 2 - PROVIDED WITH PLASTIC SNAP FIT COVER TO PLUG UNUSED KEY ENTRY WINDOW
- 3 THE LEFT INDICATOR IS GREEN AND THE RIGHT INDICATOR IS RED. NOT PRESENT ON BODY/INDICATOR CODES F OR G
- 4 - MAXIMUM OPERATING FREQUENCY (Fmax) = 100 OPS/MIN
- 5 - INSERTION FORCE = 35 N
8 LB
EXTRACTION FORCE = 28 N
6 LB
MAXIMUM SOLENOID LOCKING FORCE = 1000 N
224 LB
- 6 ROTATE 1/4 TURN CLOCKWISE TO UNLOCK DEVICES WITH HEAD TO LEFT, SOLENOID UNLOCK AND DEVICES WITH HEAD TO RIGHT, SOLENOID LOCK. ROTATE 1/4 TURN COUNTERCLOCKWISE TO UNLOCK DEVICES WITH HEAD TO LEFT, SOLENOID LOCK AND DEVICES WITH HEAD TO RIGHT, SOLENOID UNLOCK.
- 7 NOT PRESENT ON TYPE/OVER-RIDE CODES B OR T
- 8 SWITCH MUST OPERATE BEFORE REACHING MINIMUM INSERTION DISTANCE
- 8 - T-15 TAMPERPROOF TORX DRIVER BIT PROVIDED
- 9 ELECTRICAL RATINGS ARE FOR BASIC SWITCHES
- 10 - MINIMUM SOLENOID VOLTAGE = 80% DC / 85% AC OF RATED VOLTAGE
MAXIMUM SOLENOID VOLTAGE = 110% OF RATED VOLTAGE
SOLENOID POWER = 12 WATTS NOMINAL
- 11 SEE PAGES 10, 11, 12 AND 13 FOR CIRCUIT DIAGRAMS
- 12 - NO CHANGES CAN BE MADE TO THIS DRAWING WITHOUT JOINT FREEPORT / NEWHOUSE APPROVAL
- 3 THE LEFT INDICATOR IS YELLOW AND THE RIGHT INDICATOR IS RED
- 5 10-PIN CONNECTOR, BRAD HARRISON PART NO.3RI006AZIF010 OR EQUIVALENT
- 6 4-PIN CONNECTOR, WOODHEAD PART NO.80599-19 OR MOLEX PART NO.08631MZ1 OR EQUIVALENT
- 7 5-PIN CONNECTOR, BRAD HARRISON PART NO.41310 OR EQUIVALENT
- 8 CONNECTOR INSTALLED IN BOTTOM CONDUIT HOLE
- 9 CONNECTOR INSTALLED IN SIDE CONDUIT HOLE
- 10 FOR CONNECTOR AND CIRCUIT DETAILS OF MODIFICATION CODE, REFER PAGE 14 FOR CODE F05, PAGE 15 FOR CODE FW AND PAGE 16 FOR CODE F04

ELECTRICAL RATING 				ENVIRONMENTAL RATINGS		APPROVALS    IEC 947-5-1 EN60947-5-1
AC		DC		IP68 NEMA 1, 4, 6P, 12 & 13		
A300	AC 15	Q300	DC 13	TEMP RANGE -25°C TO 40°C		
Ue	Ie	Ue	Ie	-13°F TO 104°F		
(VOLTS)	(AMPS)	(VOLTS)	(AMPS)	STORAGE -40°C TO 120°C		
120	6	24	2.9	-40°F TO 248°F		
240	3	125	.55	SHOCK: 50G PER IEC 68-2-27		
		250	.27	VIBRATION: 10G PER IEC 68-2-6		
Ith = 10 A						

THIRD ANGLE PROJECTION			
SCALE		NTS	
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
NO PLACES	DIM.	TOL.	TOL.
ONE PLACE	1/2	1/16, 3/16	0.061, 0.125
TWO PLACES	1/4	0.07, 0.15	0.384, 0.515
THREE PLACES	1/8	0.157, 0.005	0.157, 0.005
ANGLES			
SI METRIC		US CUSTOMARY	
☒		☐	
DESIGN UNITS			
WEIGHT 1.5		kg / 3.3 LB	

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.			
FED. MFG. CODE 91929		CATALOG LISTING	
MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK	
GK SERIES CHART 4		GK SERIES CHART 4	



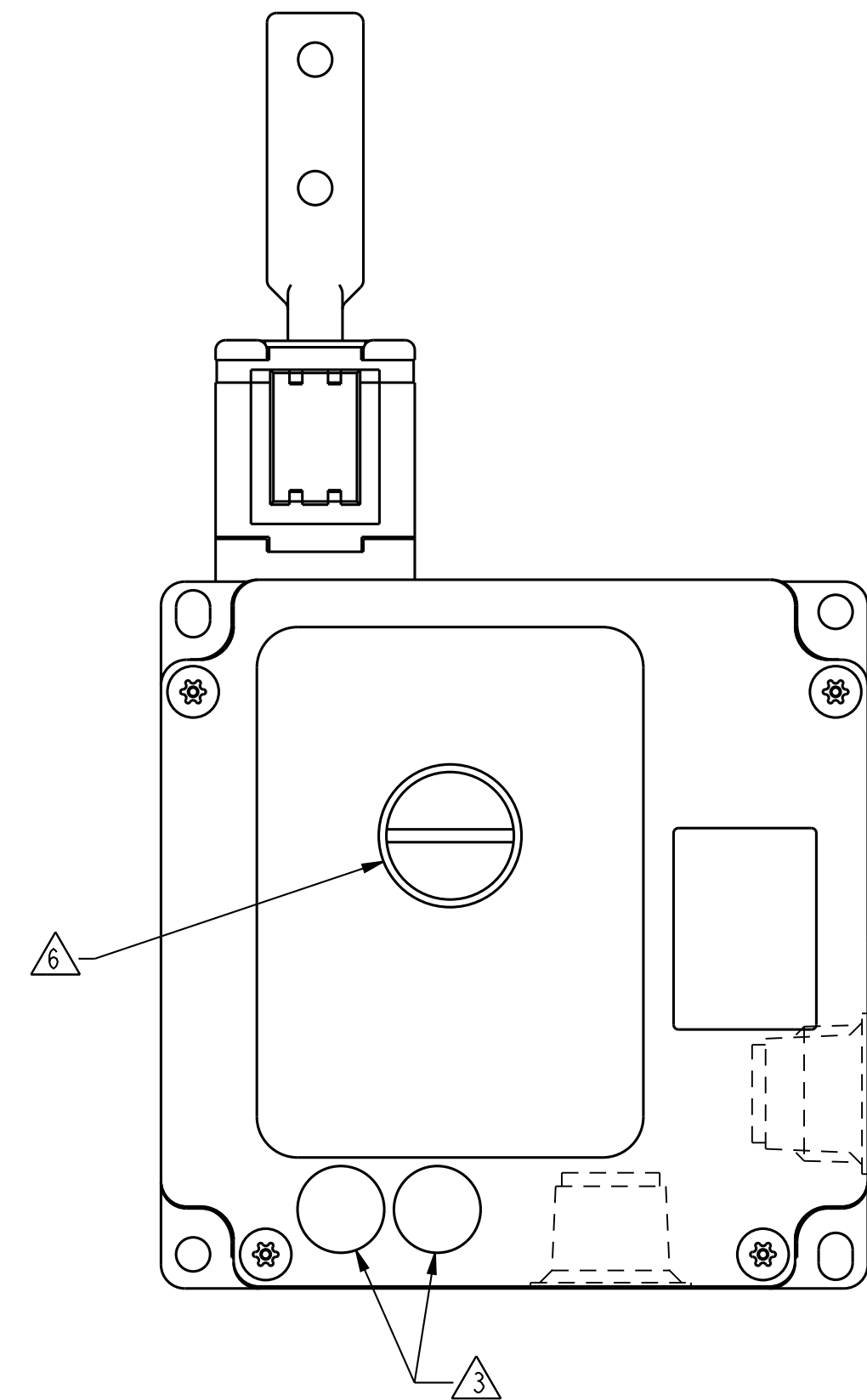
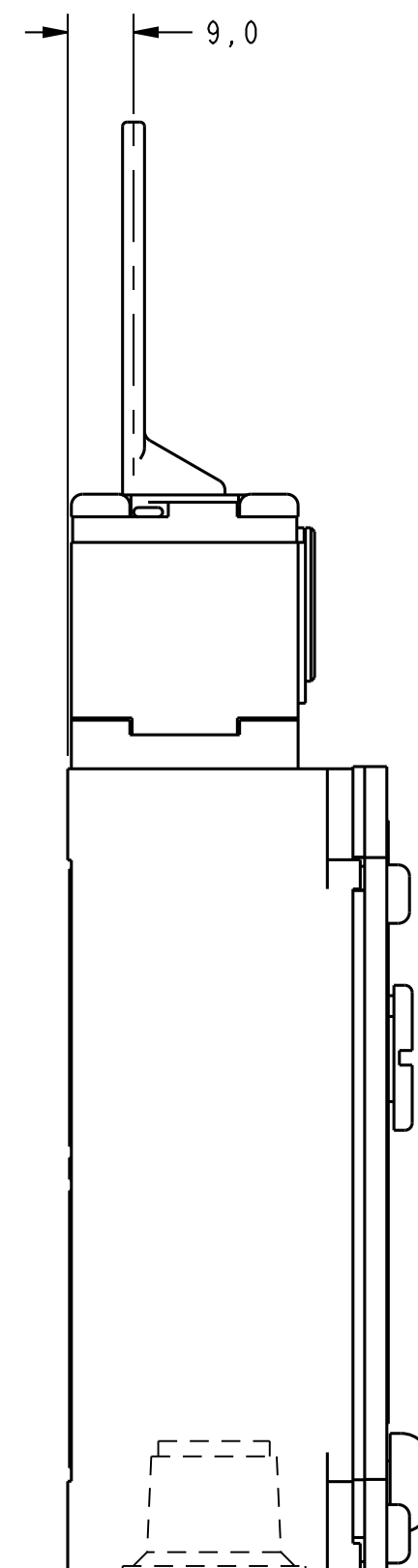
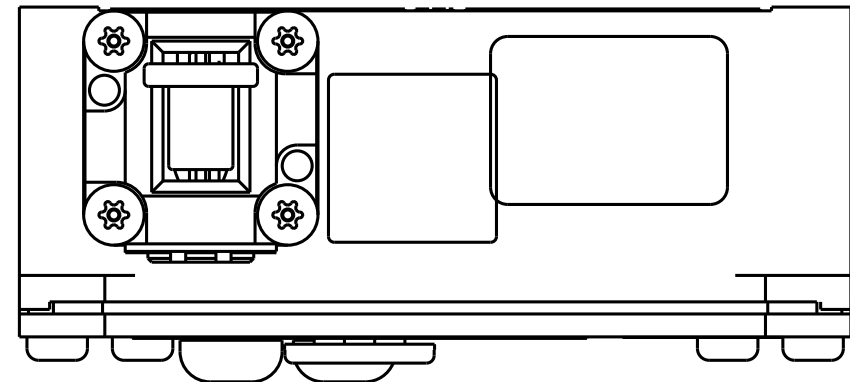
TOP KEY ENTRY

FRONT KEY ENTRY

BODY / INDICATOR CODES R OR G

[illegible]

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FED. MFG. CODE 91929		CATALOG LISTING	
 MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK	
		GK SERIES CHART 4	
		NO PLACES 1.1 1/4 ONE PLACE 2.1 0.47-0.16 TWO PLACES 3.1 0.15-0.08 THREE PLACES 4.1 ANGLES	
		SI METRIC ☒ US CUSTOMARY ☐ DESIGN UNITS	
		WEIGHT 1,5 kg / 3.3 LB	



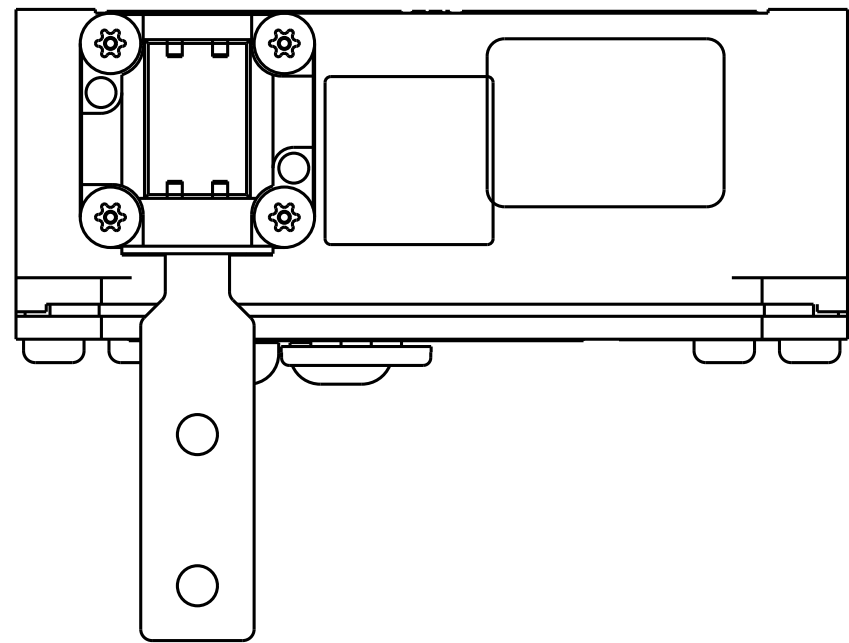
TOP KEY ENTRY

FRONT KEY ENTRY

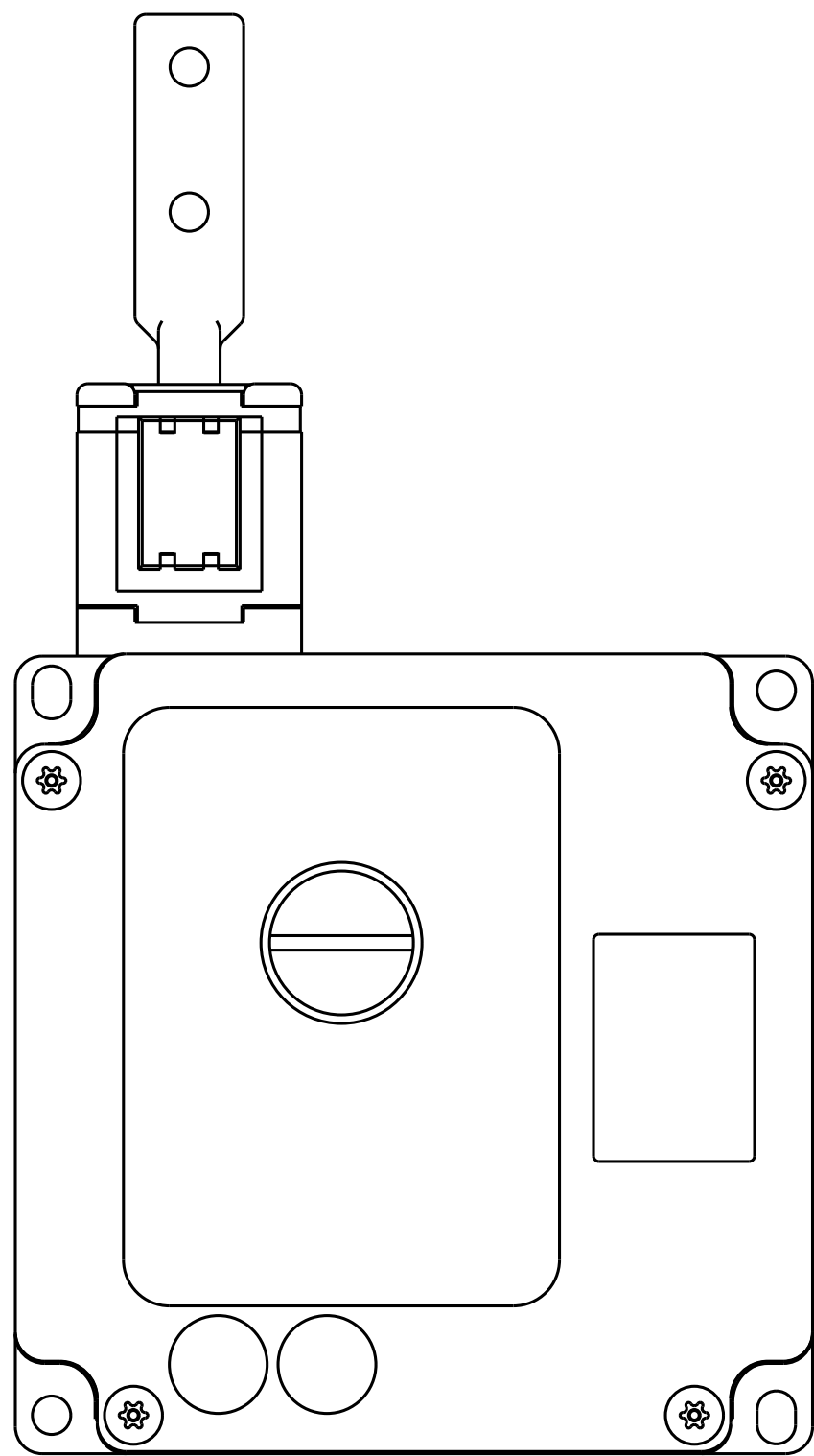
BODY / INDICATOR CODES L OR F

[illegible]

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DIM.	TOL.	DIM.	TOL.																								
mm / in	mm / in	mm / in	mm / in																								
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ANGLES																											
FED. MFG. CODE 91929	CATALOG LISTING	<table><tr><td>SI METRIC</td><td>US CUSTOMARY</td></tr><tr><td>☒</td><td>☐</td></tr></table>		SI METRIC	US CUSTOMARY	☒	☐																				
SI METRIC	US CUSTOMARY																										
☒	☐																										
MICRO SWITCH a Honeywell Division	SWITCH - DOOR INTERLOCK	GK SERIES CHART 4																									
		DESIGN UNITS ☒ ☐																									
		WEIGHT 1.5 kg / 3.3 lb																									

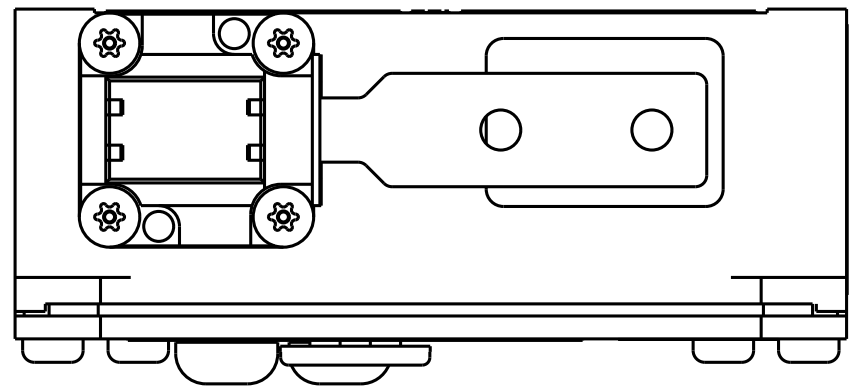
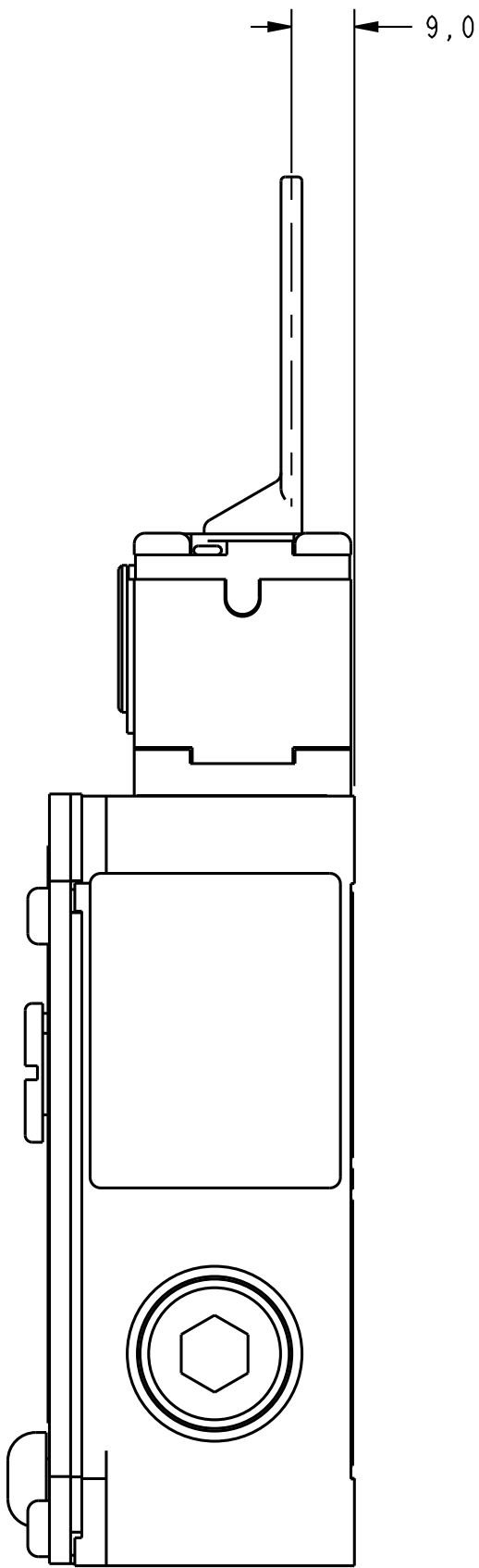


WITH KEY IN FRONT ENTRY POSITION

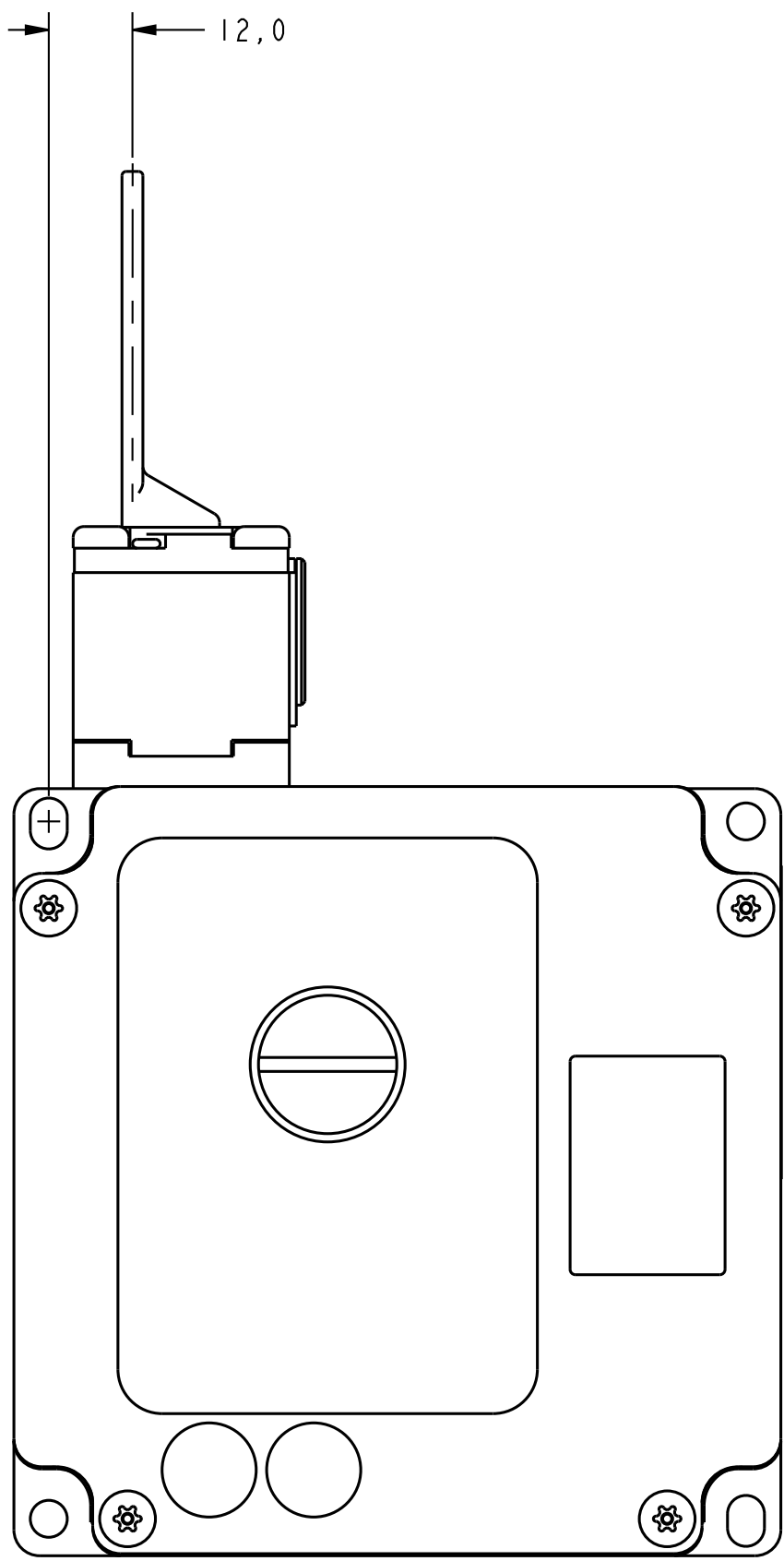


WITH KEY IN TOP ENTRY POSITION

HEAD CODE L

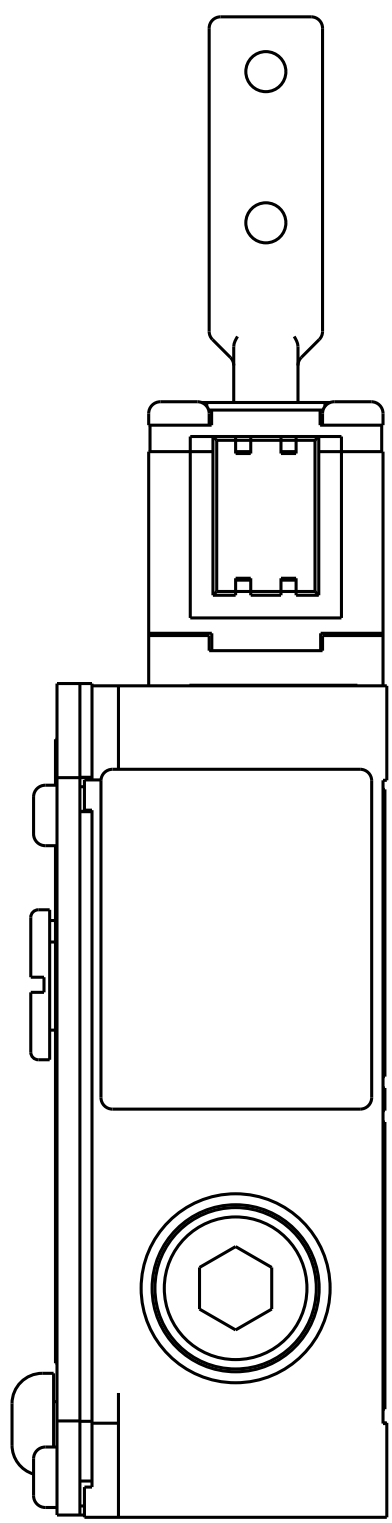


WITH KEY IN FRONT ENTRY POSITION



WITH KEY IN TOP ENTRY POSITION

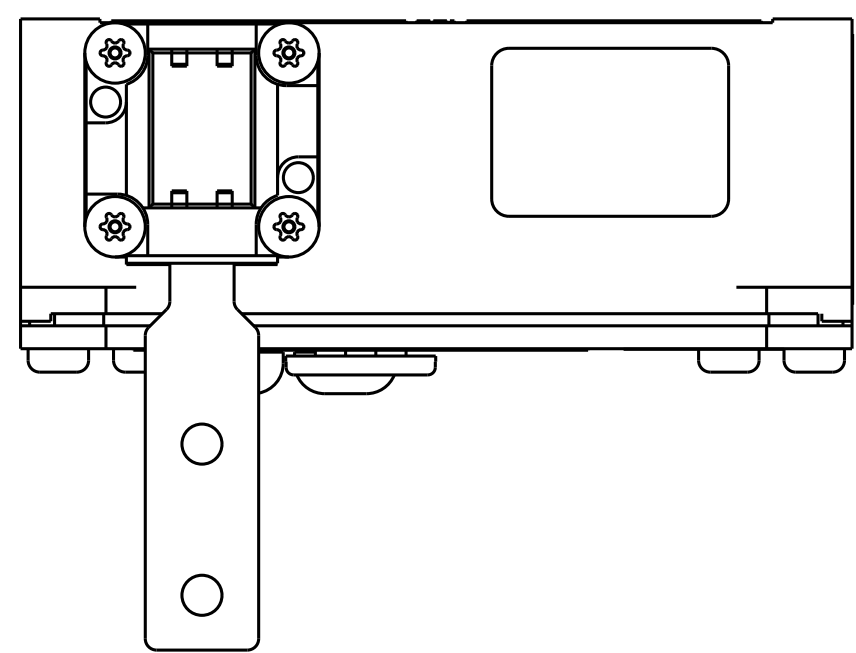
HEAD CODE M



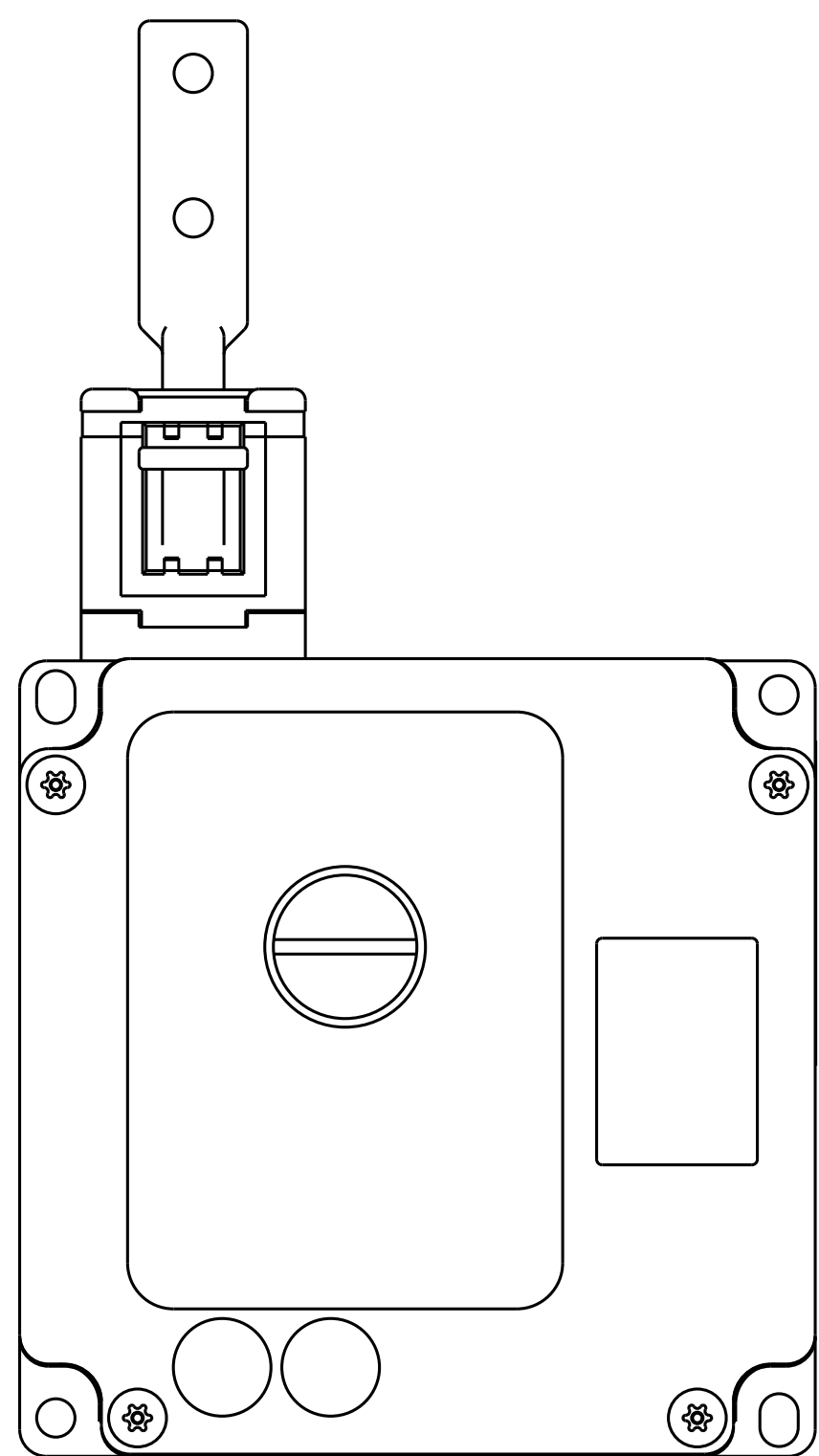
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ISSUE	5254	DRAWING NUMBER	5254	5254	5254	5254	5254	5254	5254	5254	5254	5254	5254	5254
REVISIONS	1	0447583	SS	04FEB09	04FEB09	04FEB09	04FEB09	04FEB09	04FEB09	04FEB09	04FEB09	04FEB09	04FEB09	04FEB09
DATE	31MAY10	DATE	31MAY10	DATE	31MAY10	DATE	31MAY10	DATE	31MAY10	DATE	31MAY10	DATE	31MAY10	DATE
BY	0083578	BY	0083578	BY	0083578	BY	0083578	BY	0083578	BY	0083578	BY	0083578	BY
CHKD	10NOV11	CHKD	10NOV11	CHKD	10NOV11	CHKD	10NOV11	CHKD	10NOV11	CHKD	10NOV11	CHKD	10NOV11	CHKD

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MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK		GK SERIES CHART 4	
DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY		WEIGHT 1,5 kg / 3.3 LB			

THIRD ANGLE PROJECTION					
SCALE 2 : 1					
DO NOT SCALE PRINT					
TOLERANCES					
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :					
NO PLACES		INCH	TOL.	MM	TOL.
ONE PLACE	1	0.04	0.04	0.04	0.04
TWO PLACES	2	0.01	0.01	0.01	0.01
THREE PLACES	3	0.001	0.001	0.001	0.001

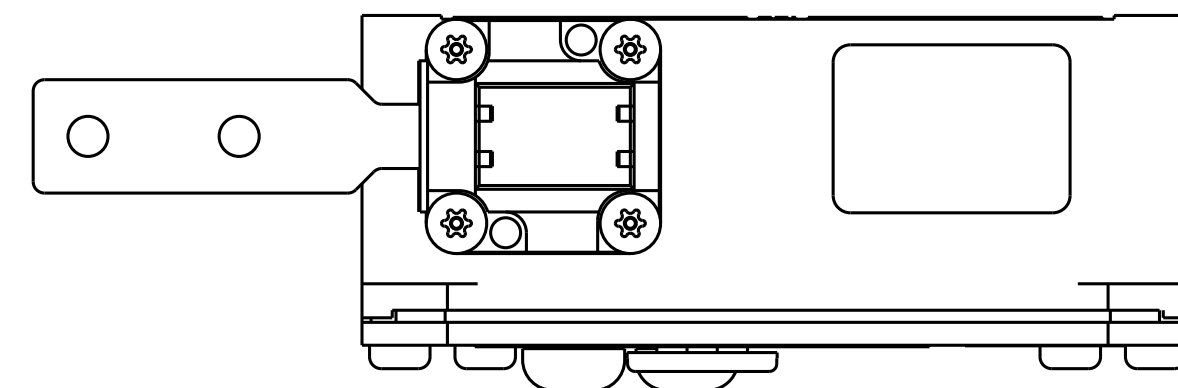
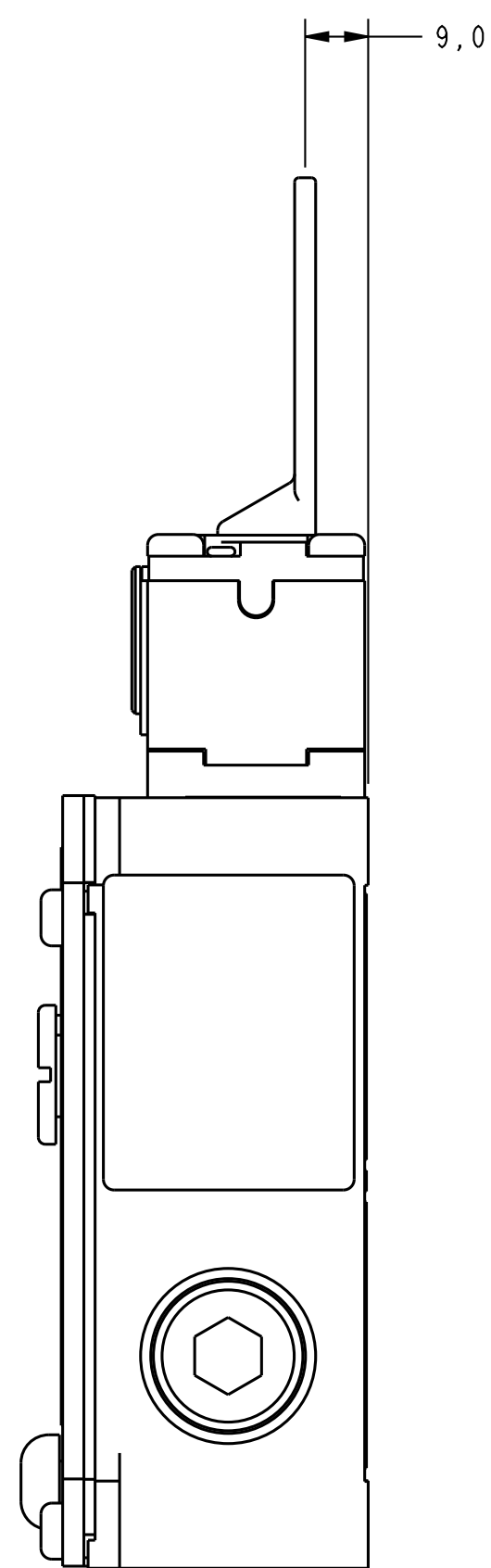


WITH KEY IN FRONT ENTRY POSITION

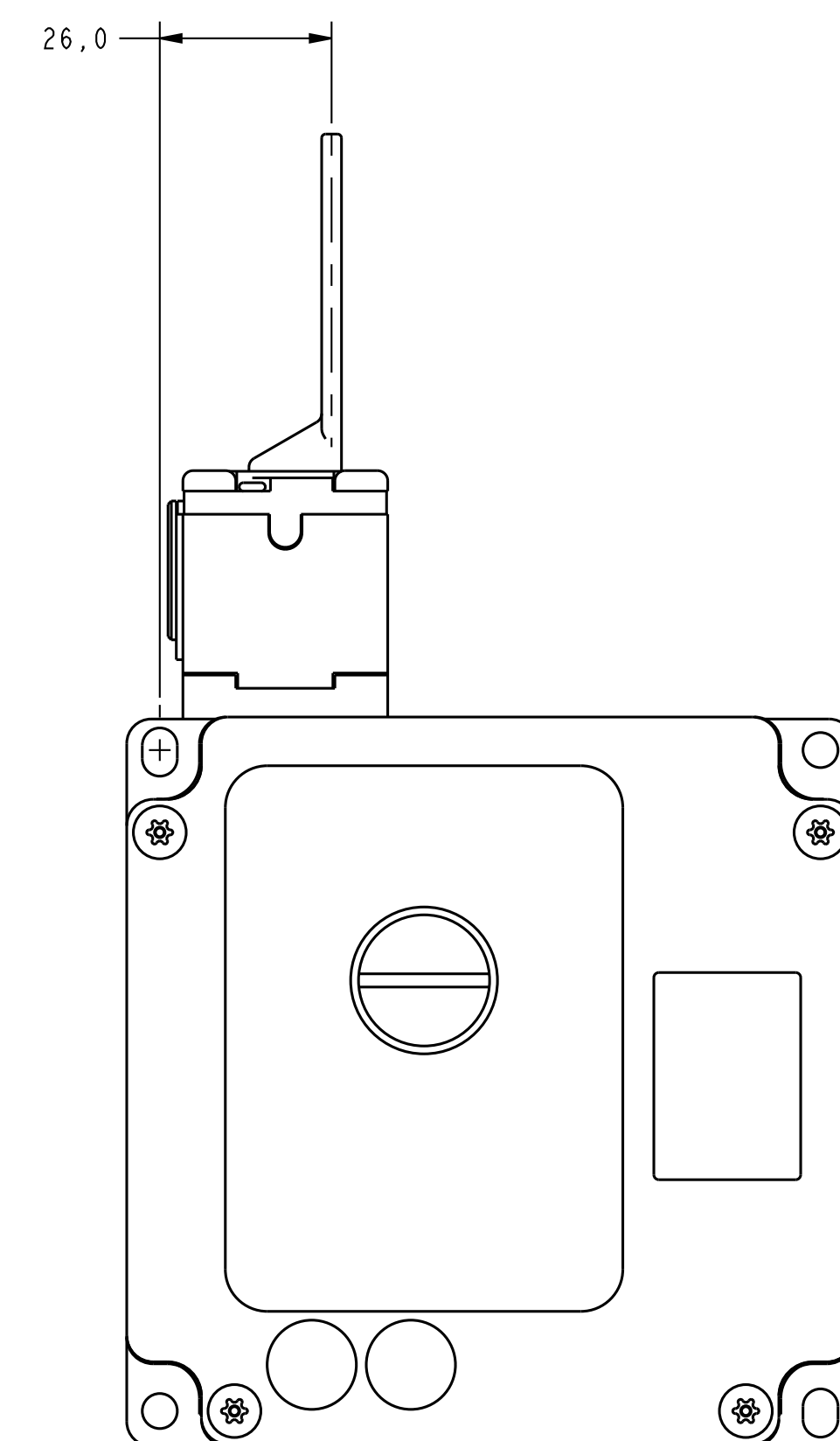


WITH KEY IN TOP ENTRY POSITION

HEAD CODE N



WITH KEY IN FRONT ENTRY POSITION



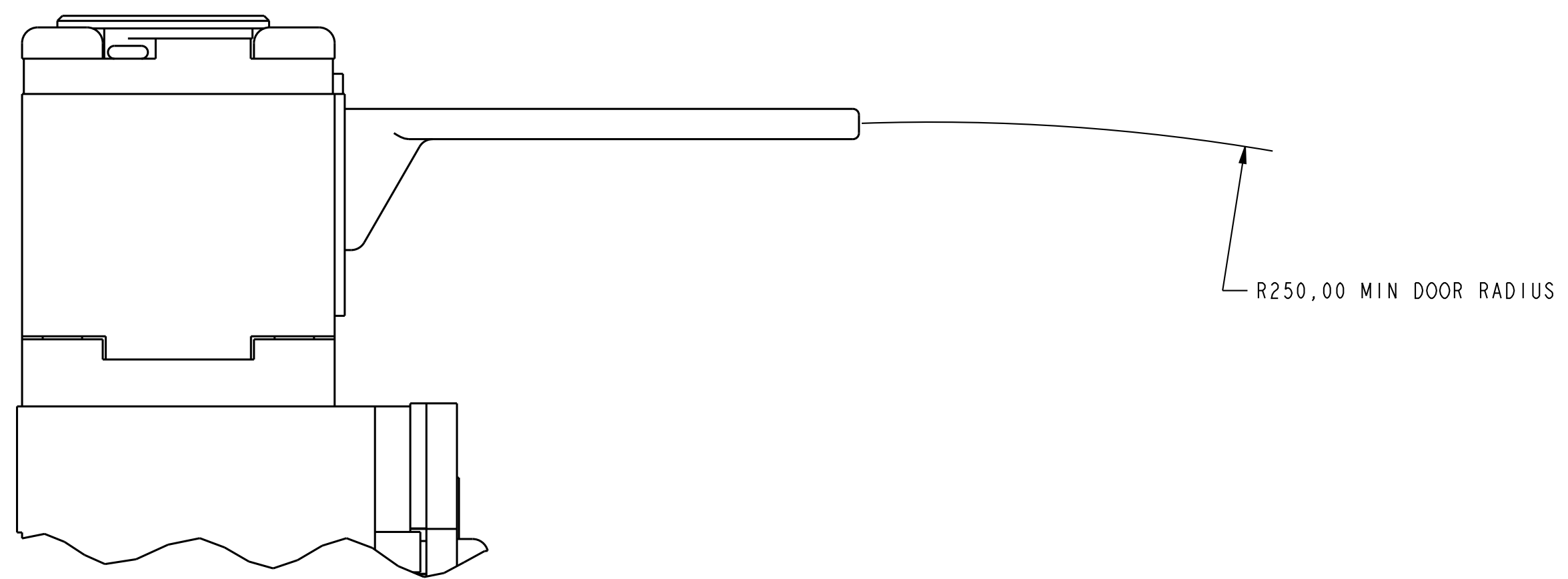
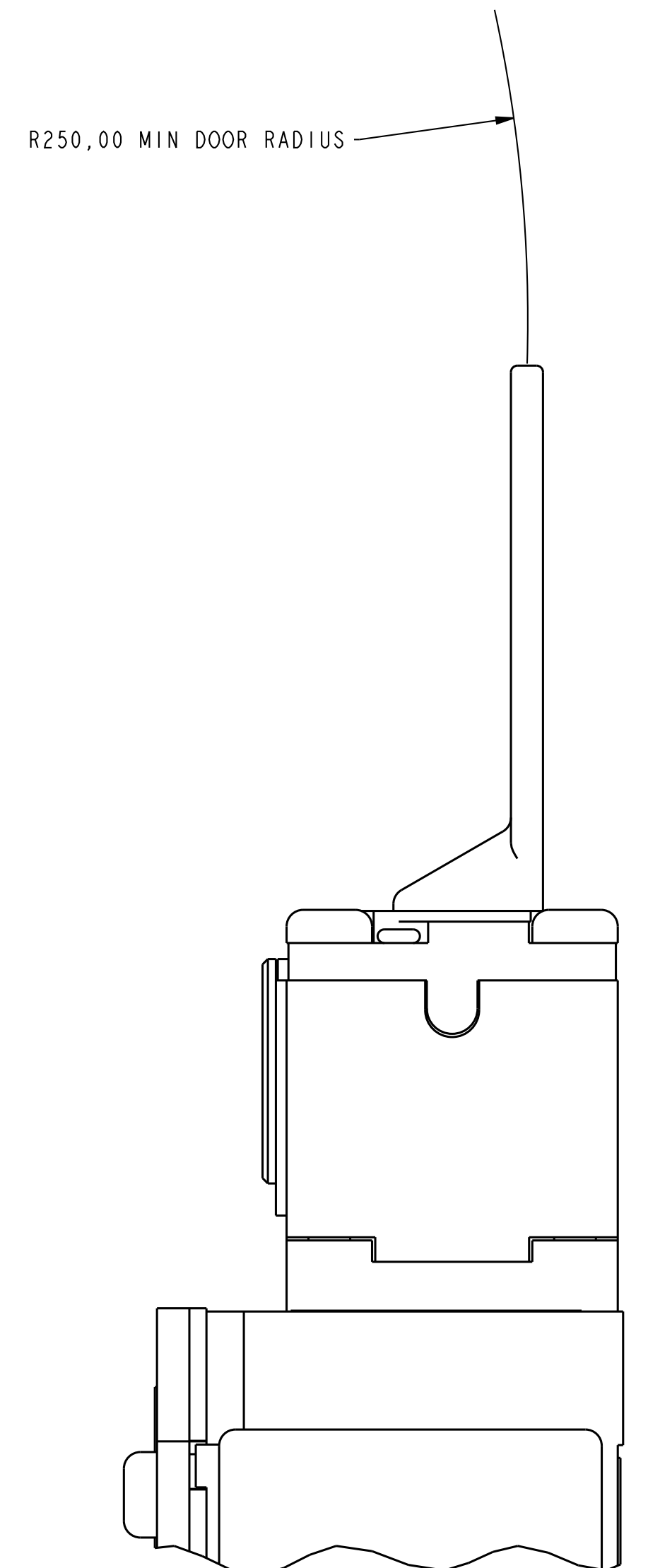
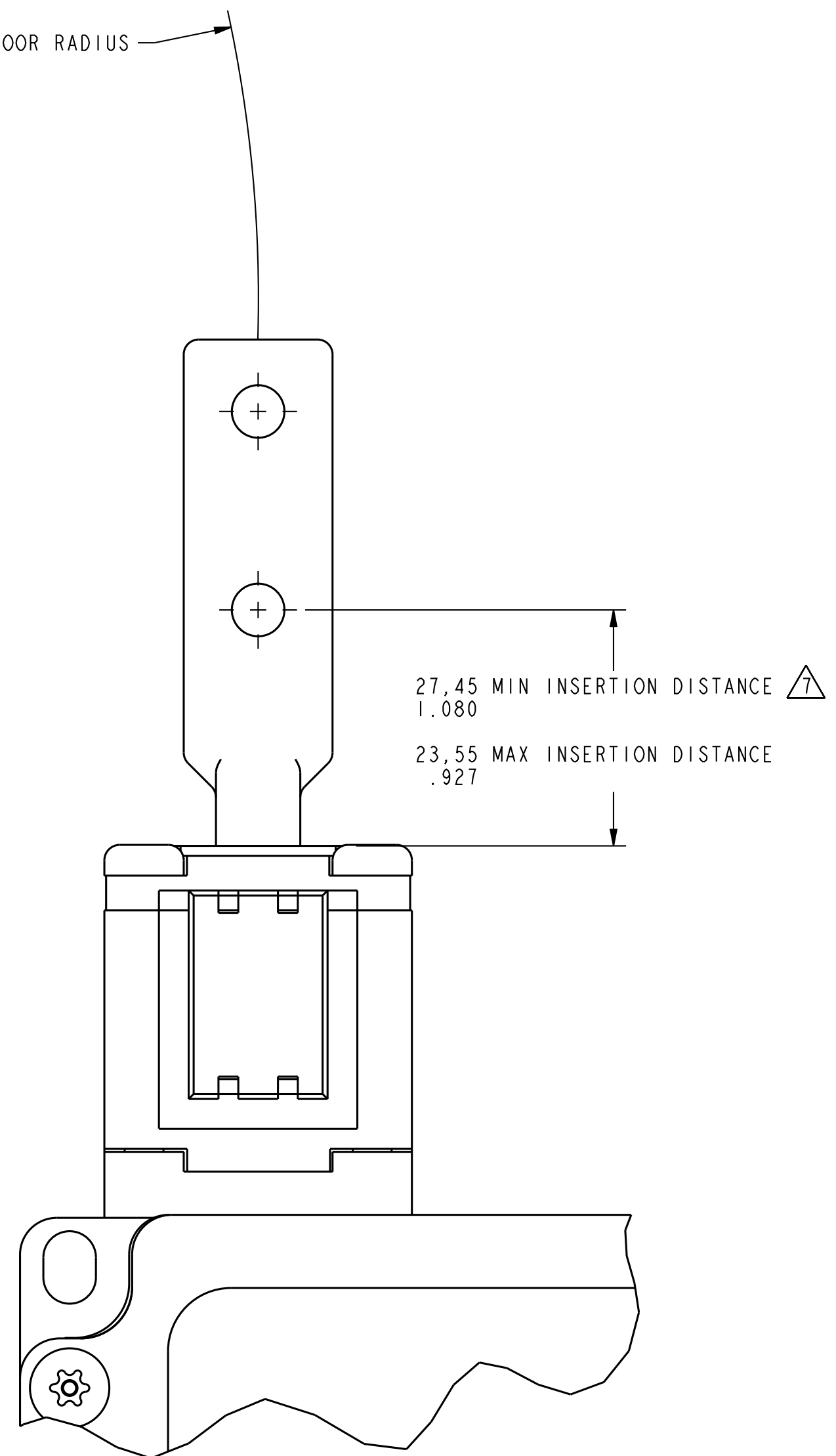
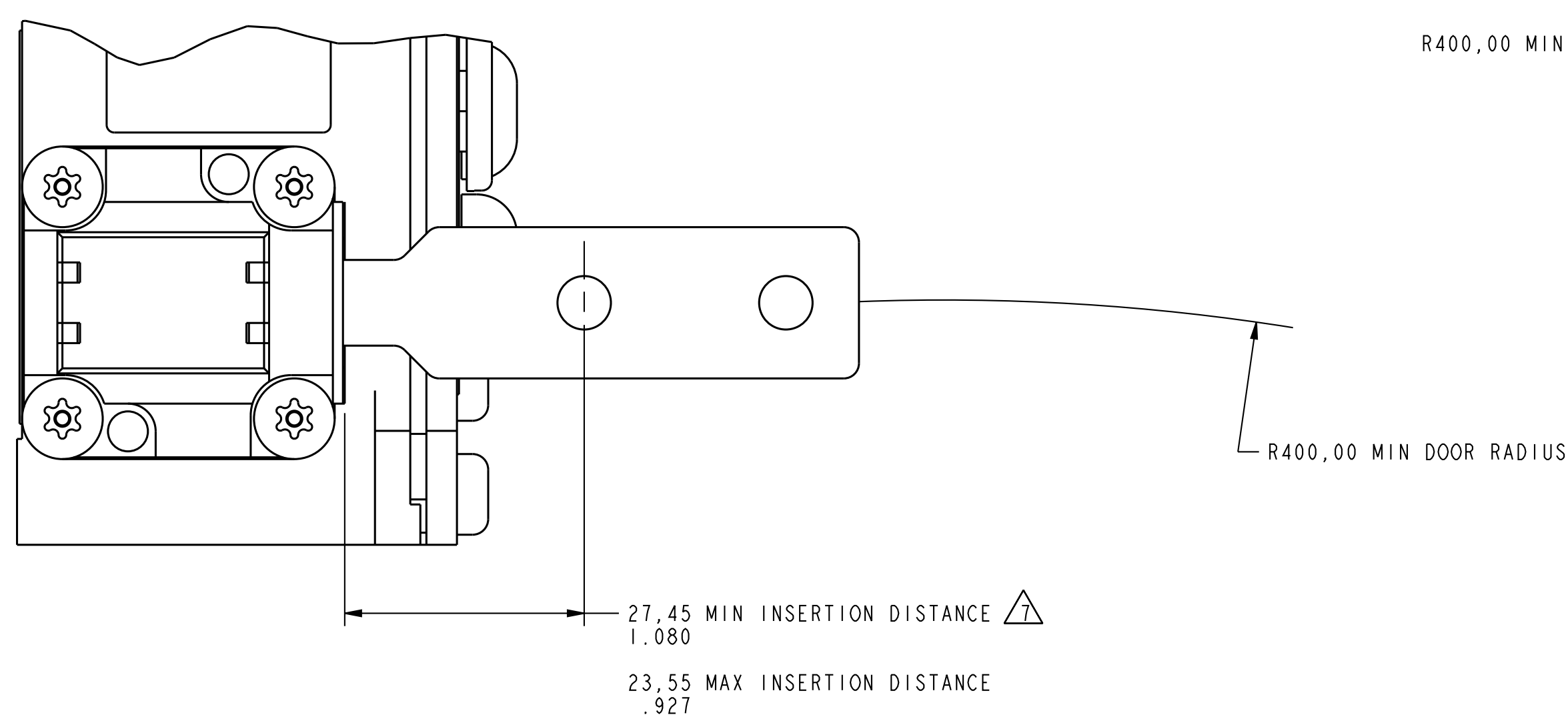
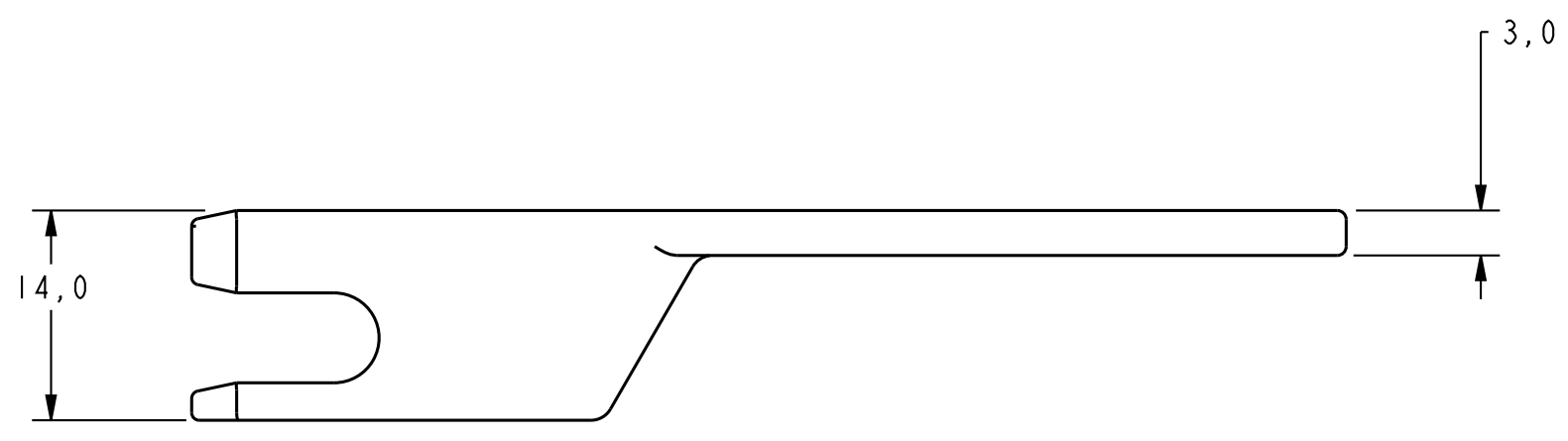
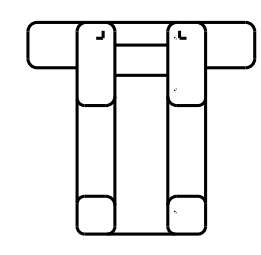
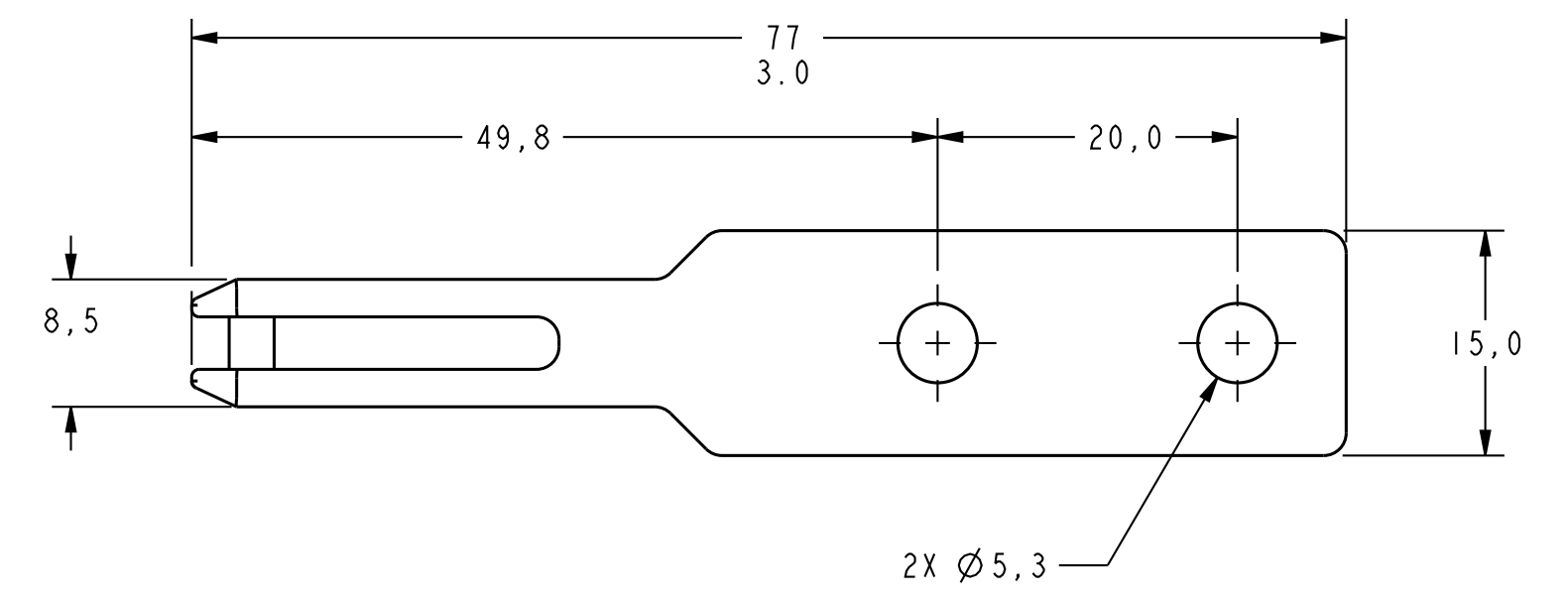
WITH KEY IN TOP ENTRY POSITION

HEAD CODE P

[illegible]

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FED. MFG. CODE 91929	CATALOG LISTING	NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES	0.00 / 0.0 0.01 / 0.016 0.13 / 0.005 0.13 / 0.005
MICRO SWITCH a Honeywell Division	SWITCH - DOOR INTERLOCK	SI METRIC US CUSTOMARY	
		DESIGN UNITS ☒	
		WEIGHT 1,5 KG / 3.3 LB	

KEY CODE 6



FRONT KEY ENTRY

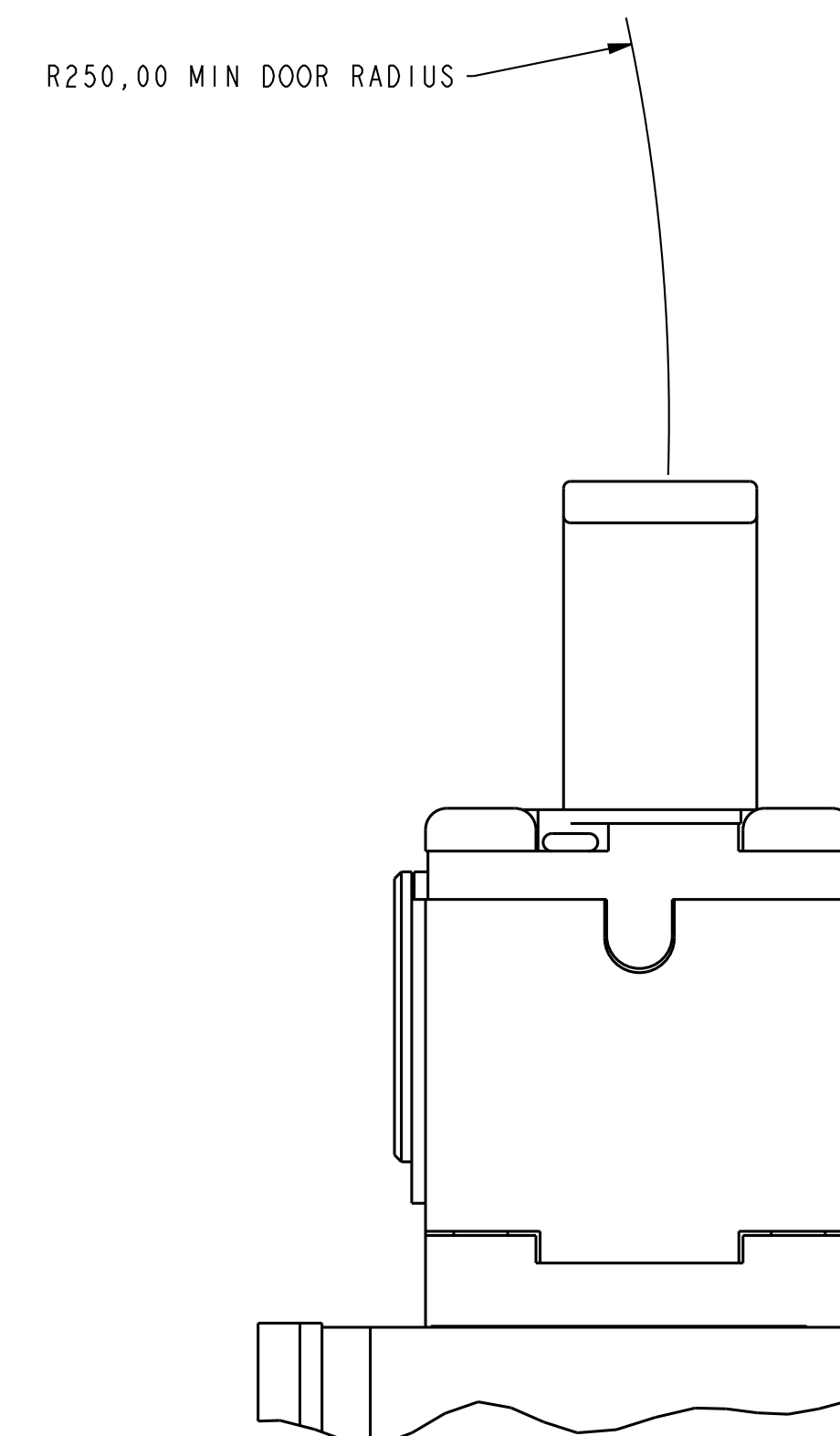
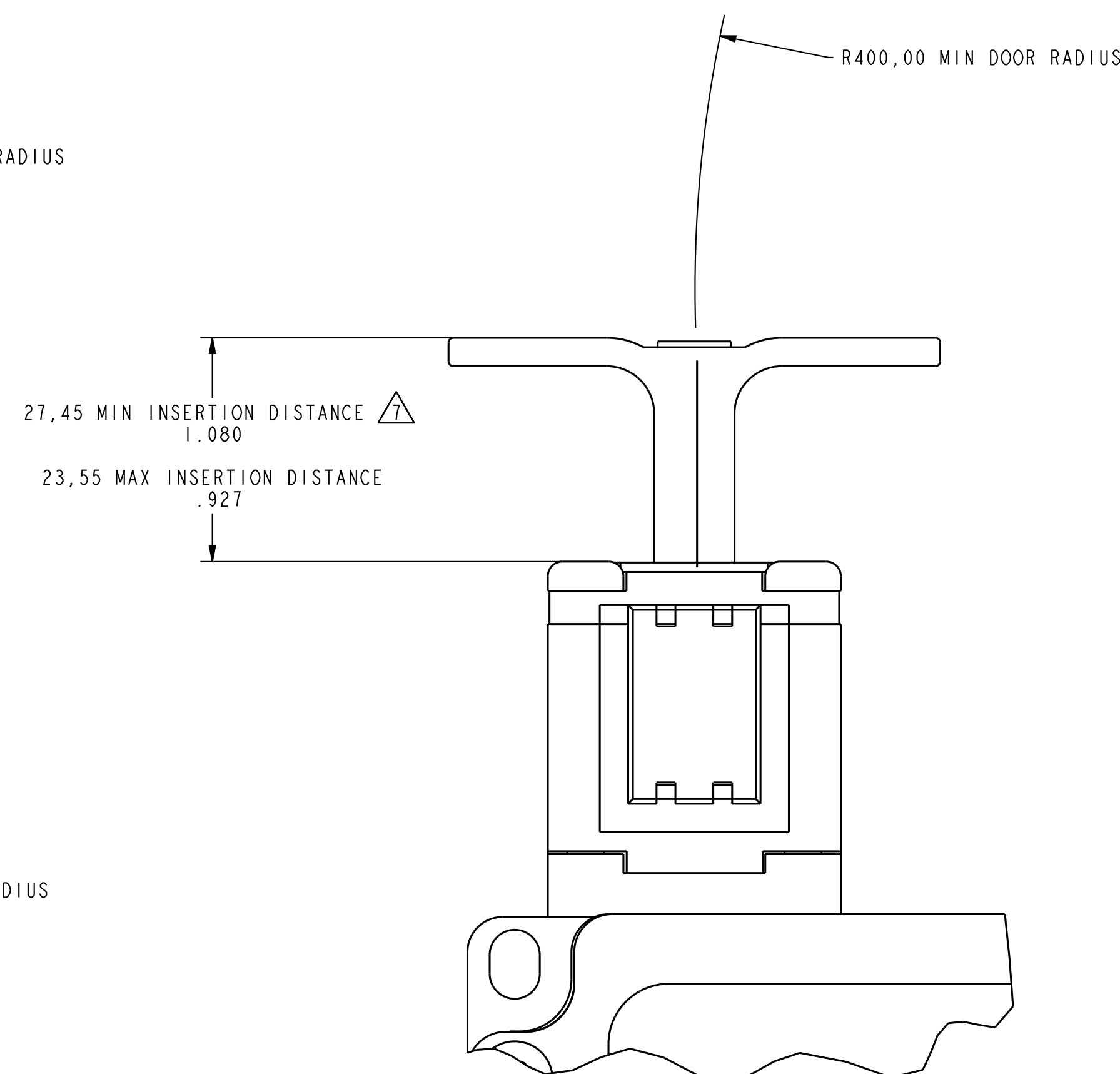
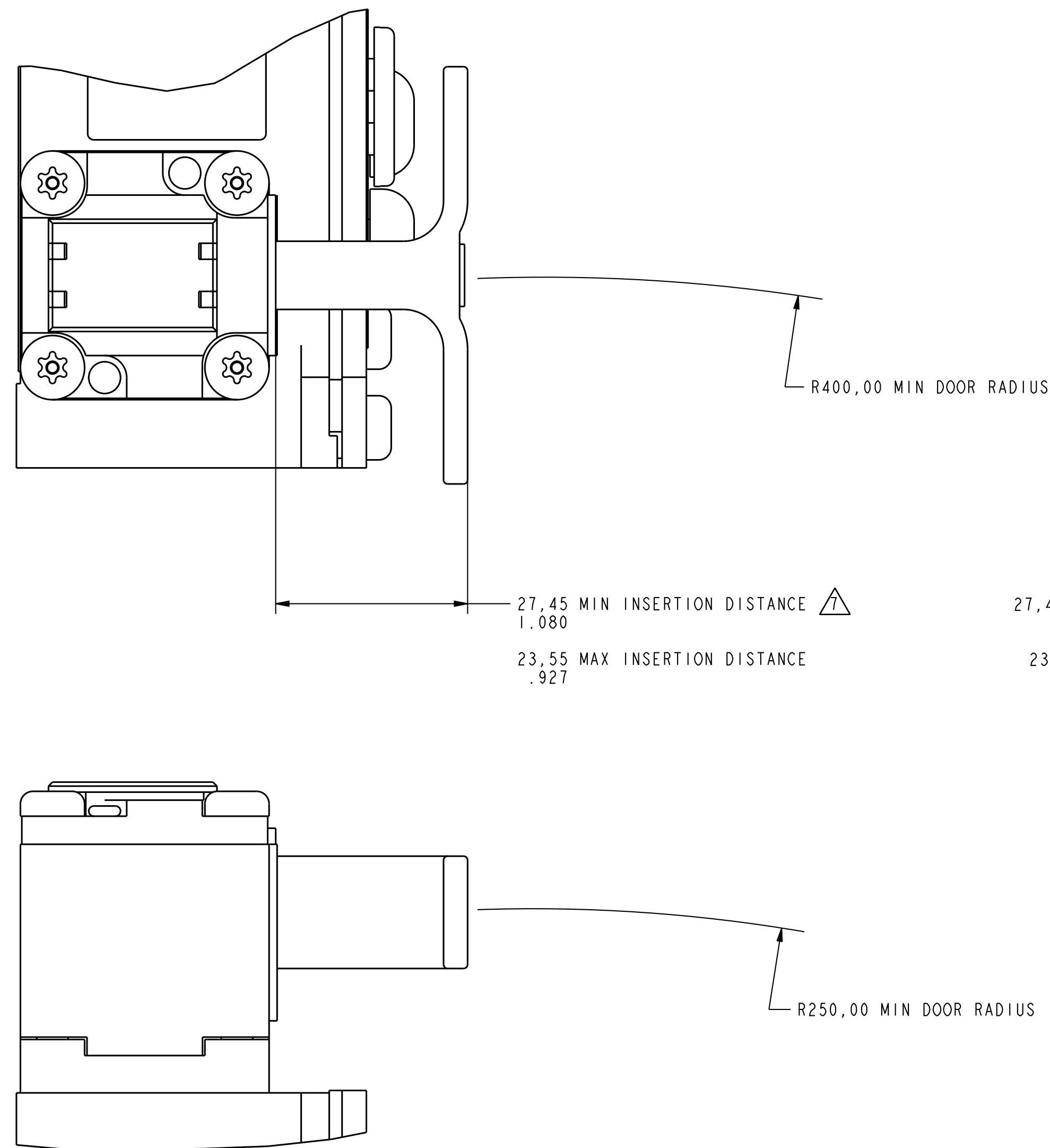
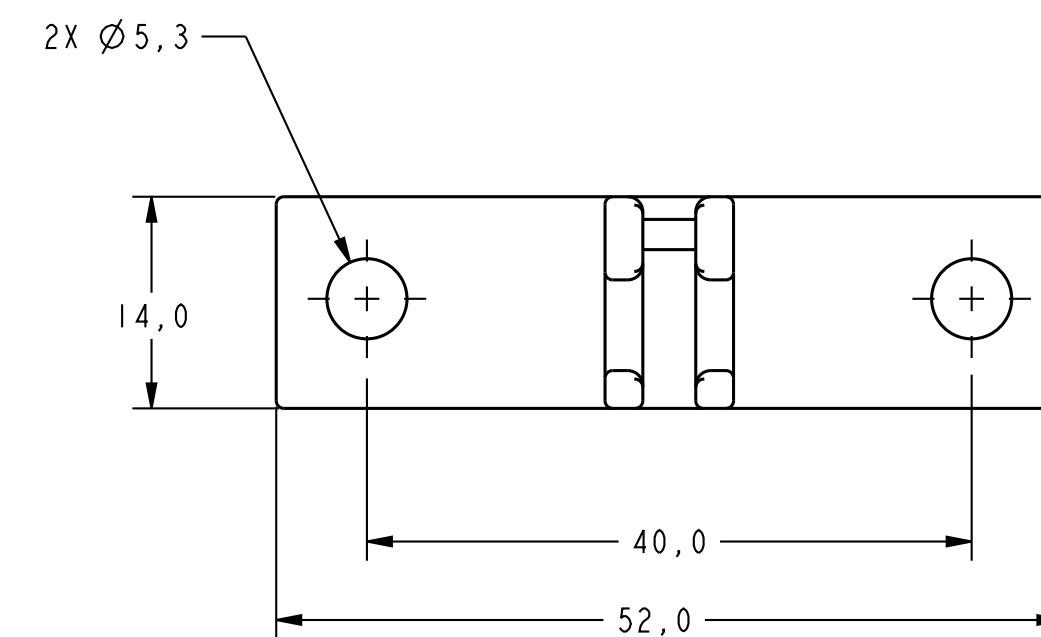
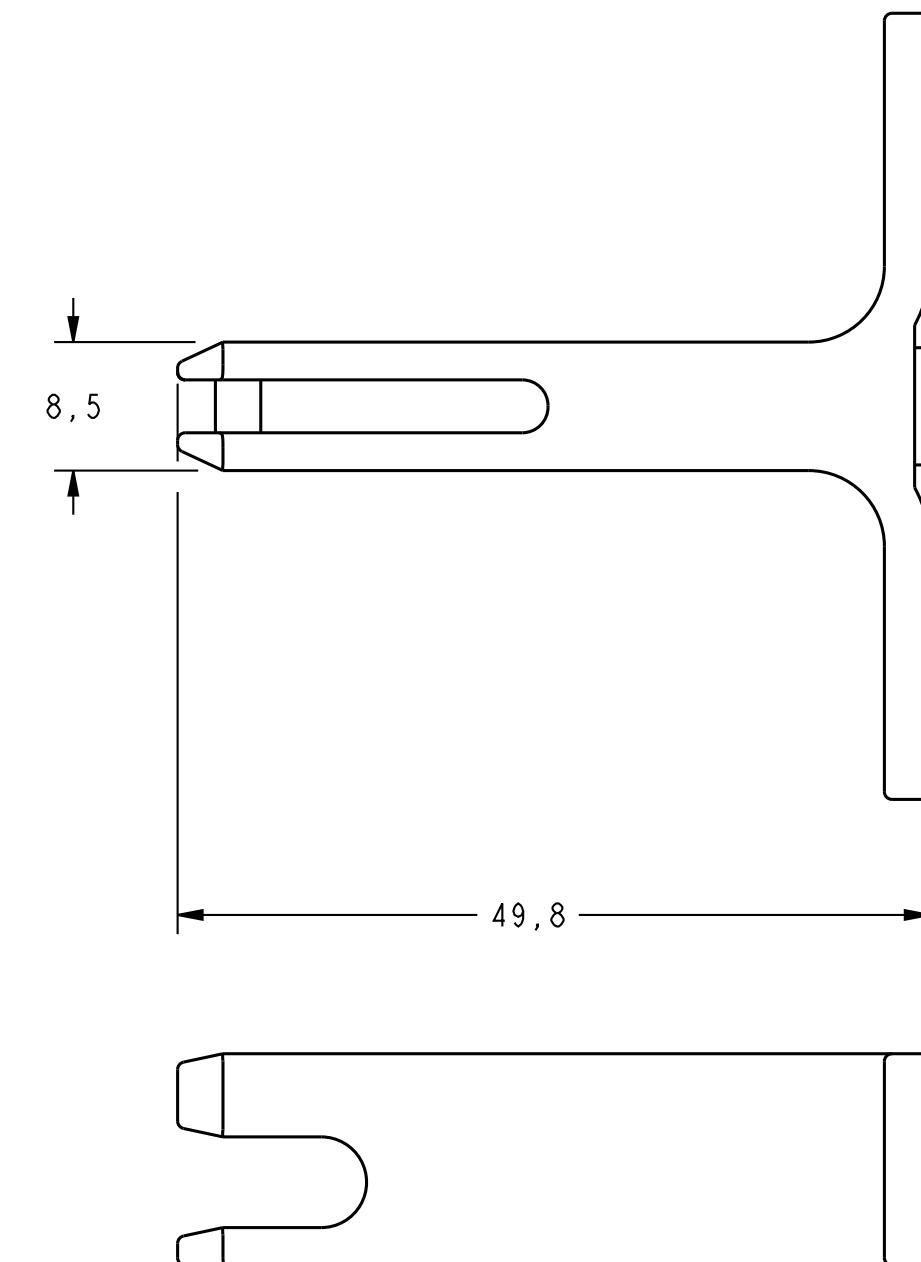
TOP KEY ENTRY

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FED. MFG. CODE 91929		SWITCH - DOOR INTERLOCK	
MICRO SWITCH a Honeywell Division		GK SERIES CHART 4	
DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY		WEIGHT 1.5 KG / 3.3 LB	

THIRD ANGLE PROJECTION			
SCALE 2 : 1			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
NO PLACES	1/16	1/32	1/64
ONE PLACE	1/16	1/32	1/64
TWO PLACES	1/16	1/32	1/64
THREE PLACES	1/16	1/32	1/64
ANGLES	1/16	1/32	1/64

GK SERIES CHART 4

KEY CODE 7

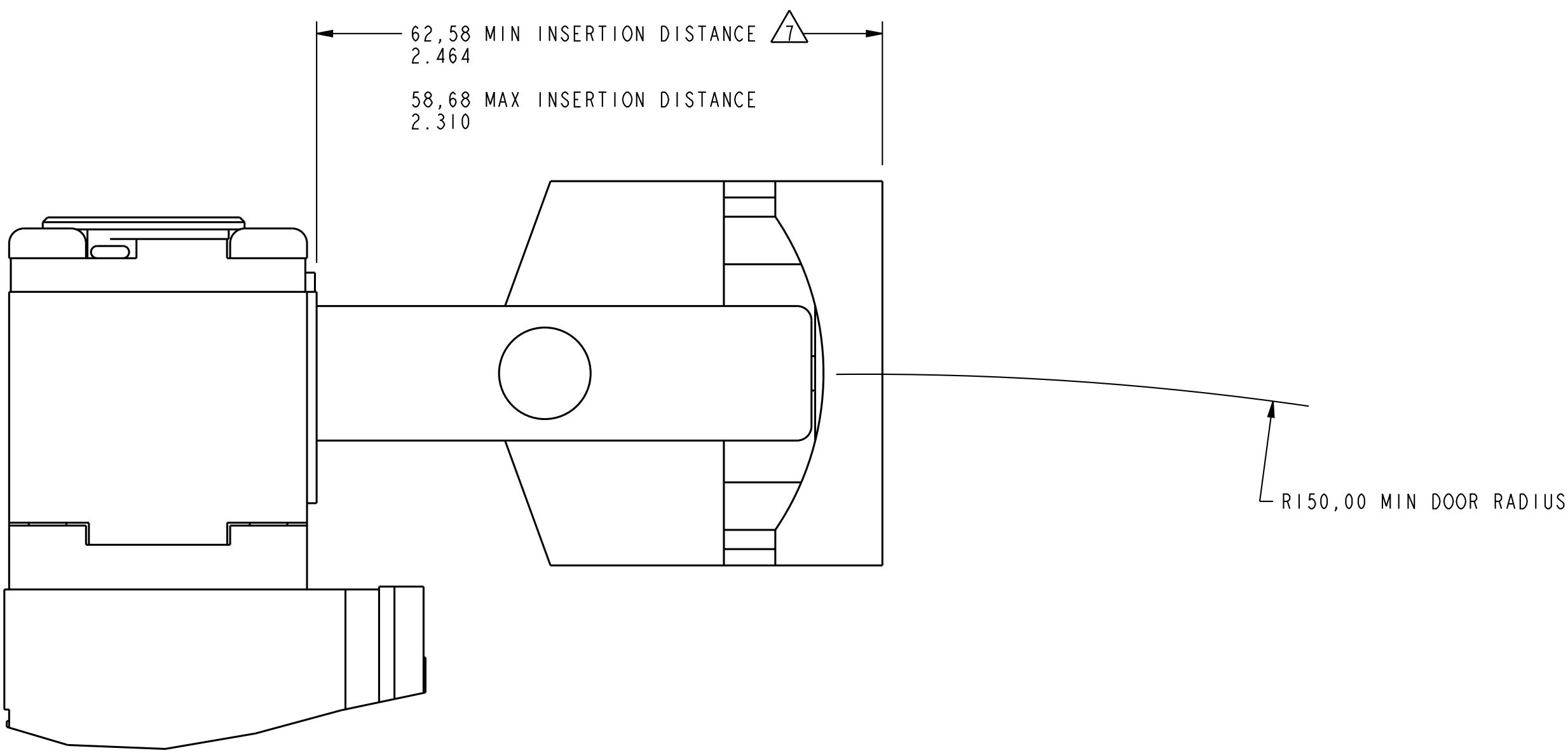
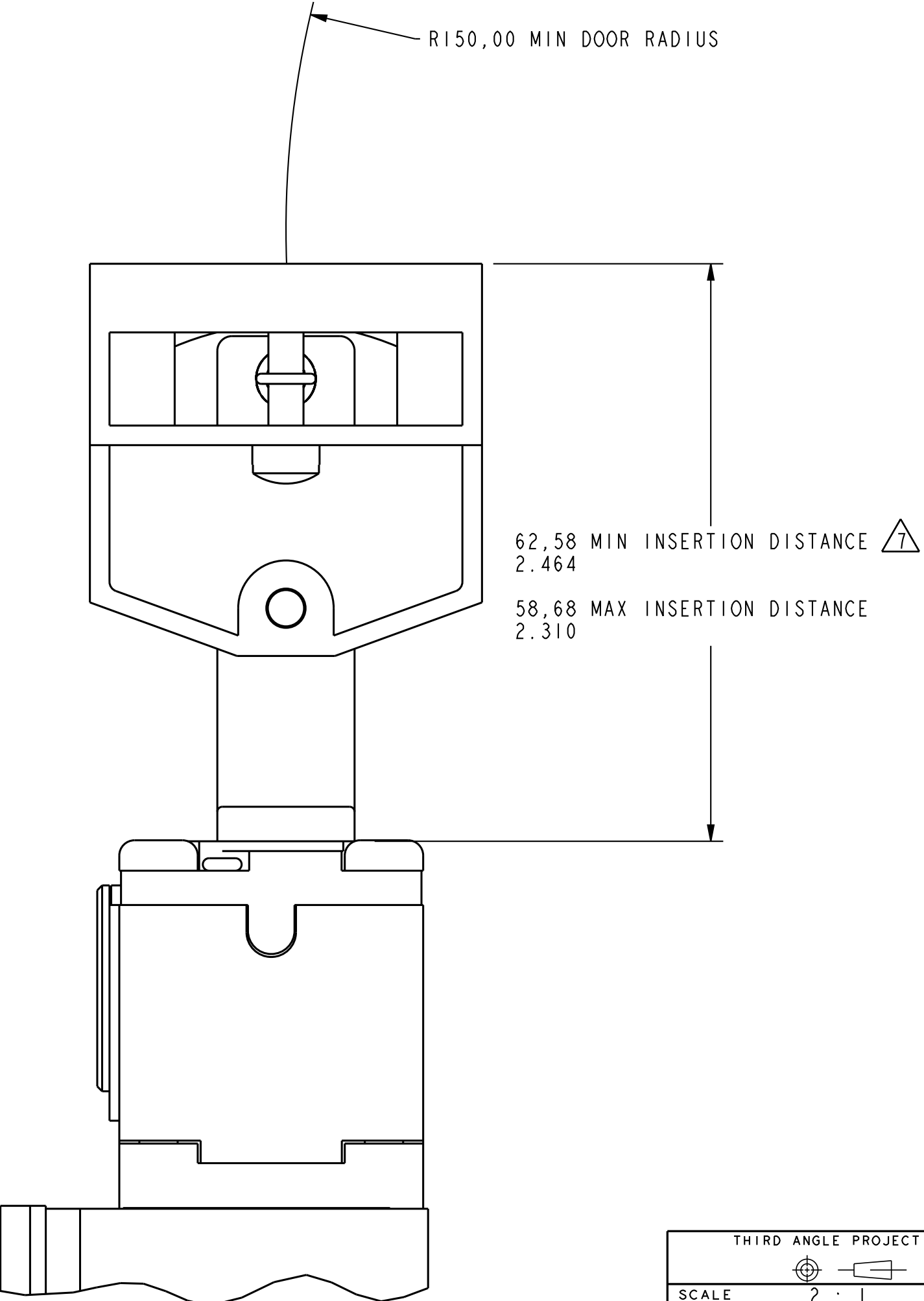
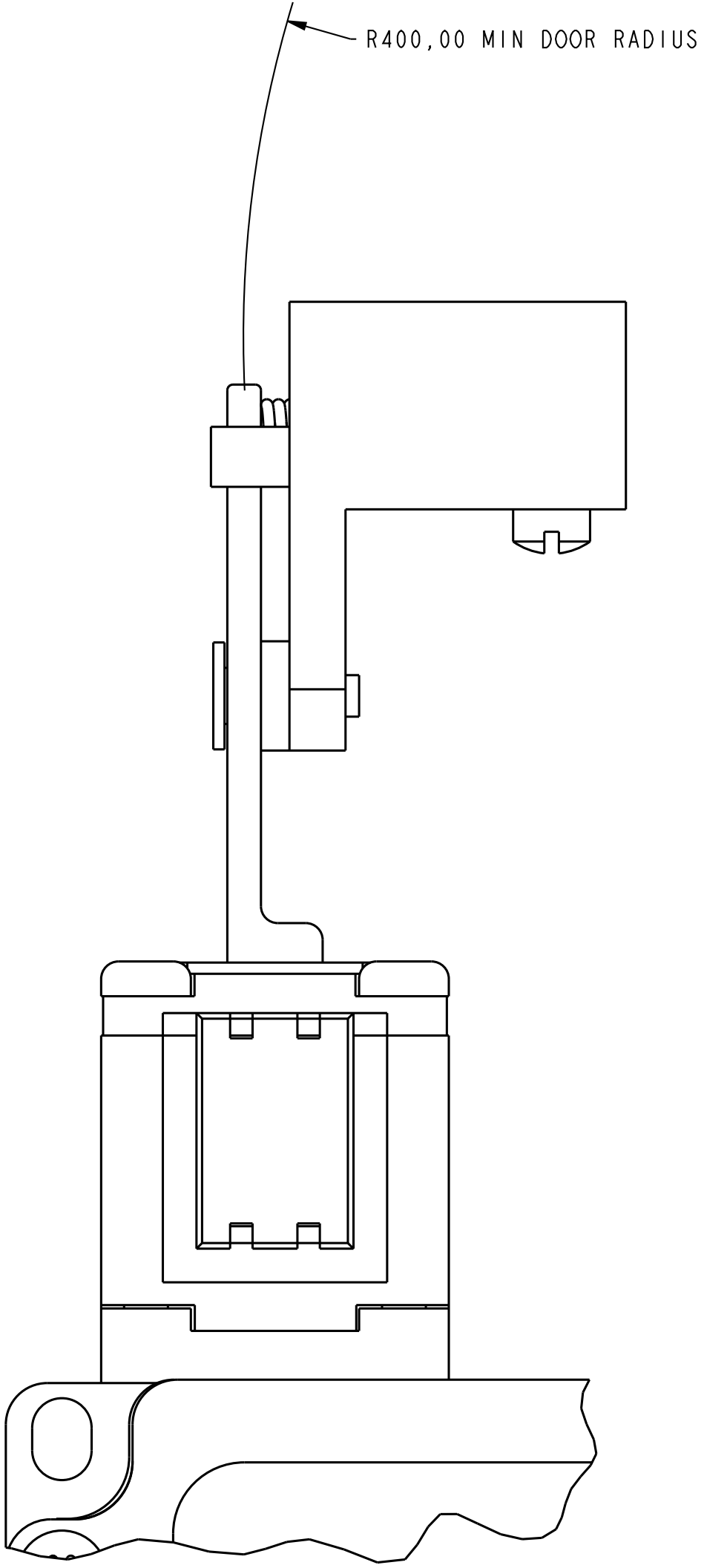
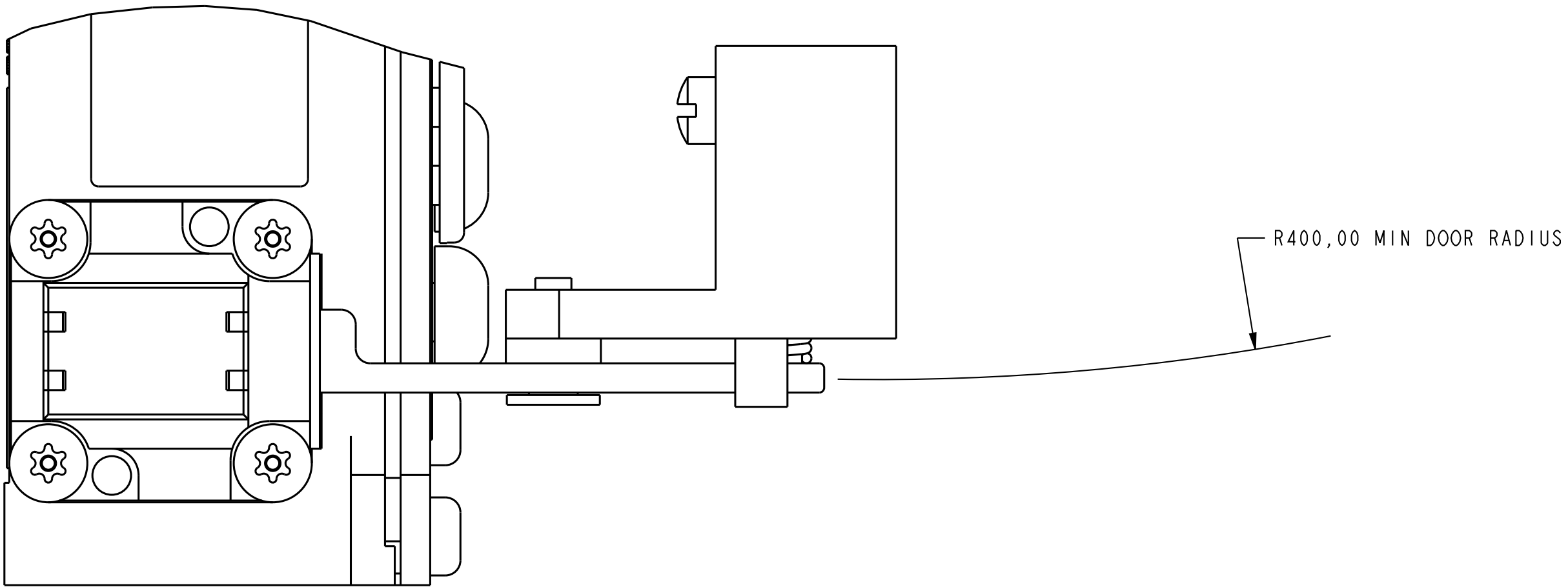
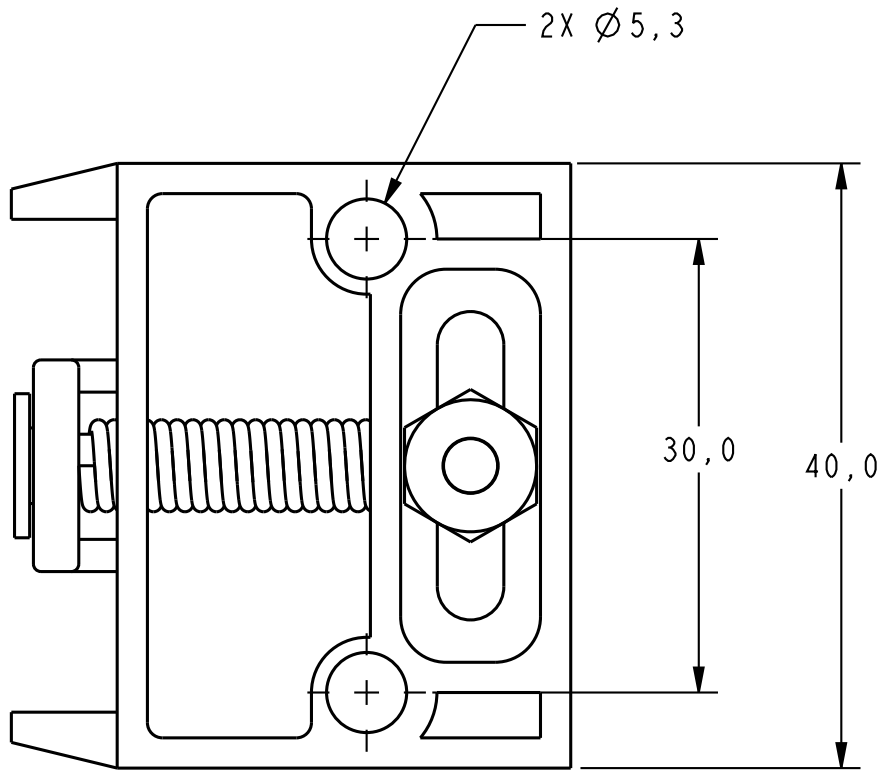
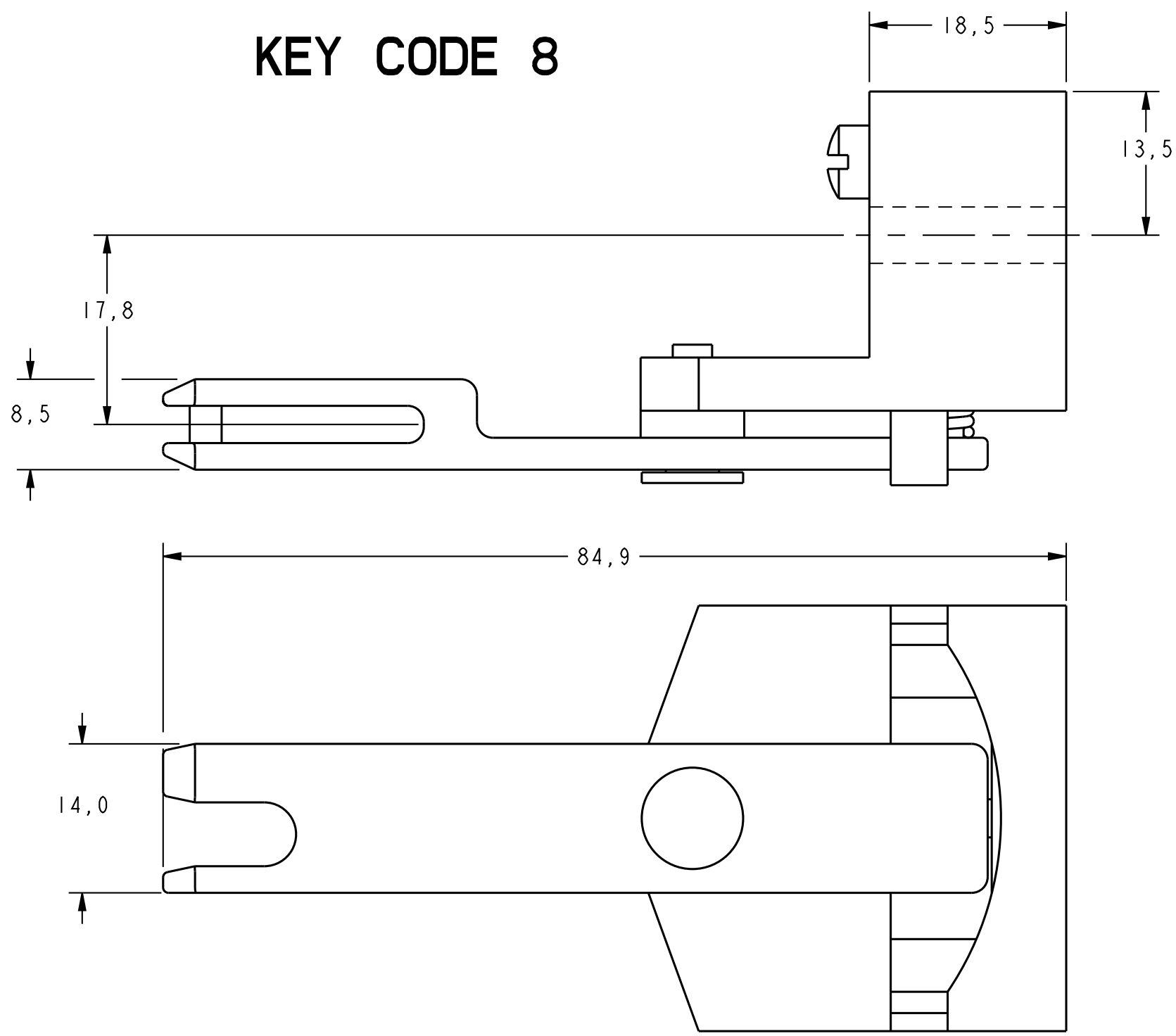


FRONT KEY ENTRY

TOP KEY ENTRY

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 MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK	
		GK SERIES CHART 4	
		NO PLACES 2 ONE PLACE 2.047-006 TWO PLACES 2.122 THREE PLACES 2.157-000 ANGLES	
		SI METRIC ☒ US CUSTOMARY ☐	
		DESIGN UNITS ☒	
		WEIGHT 1.5 KG / 3.3 LB	

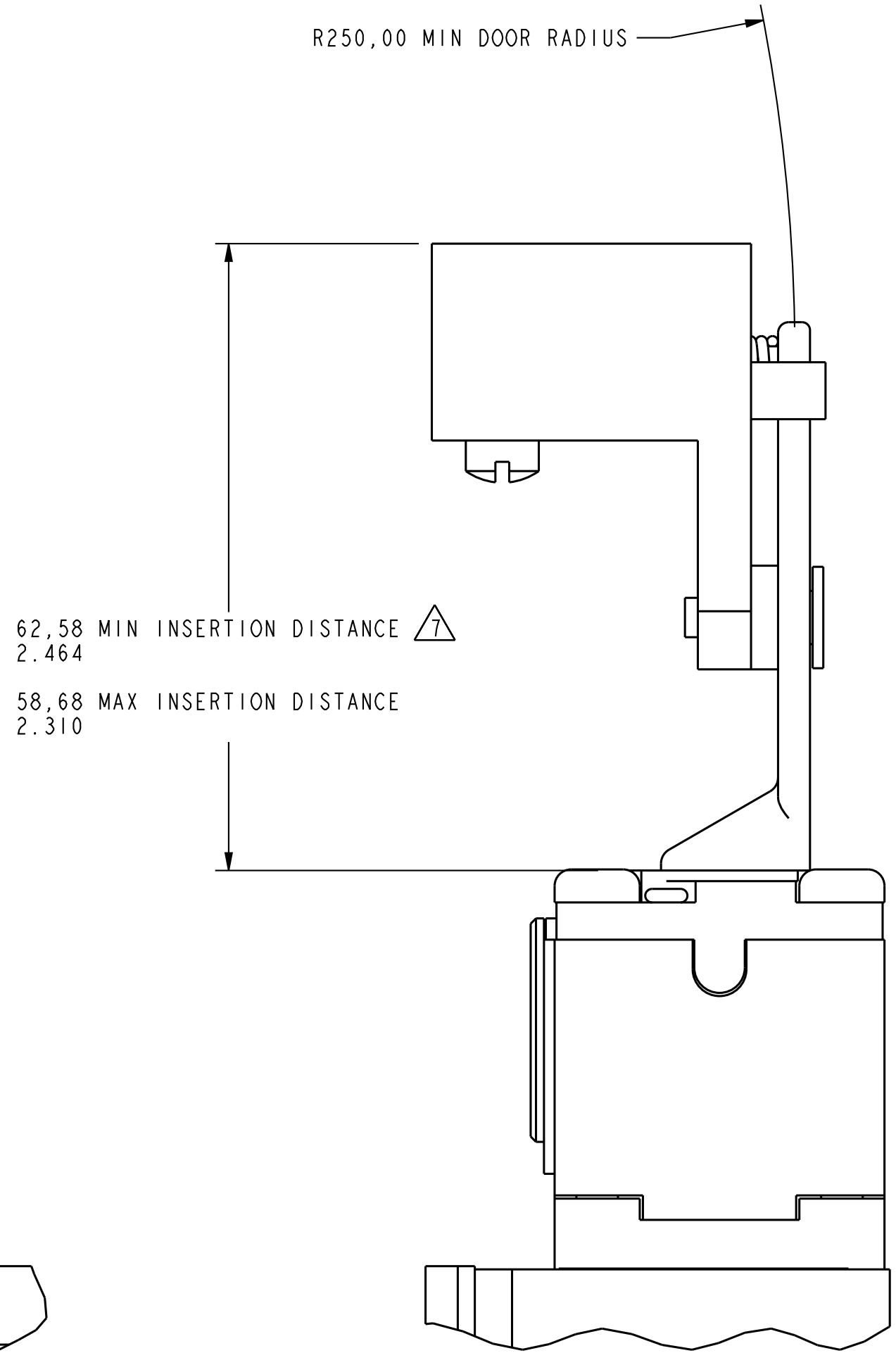
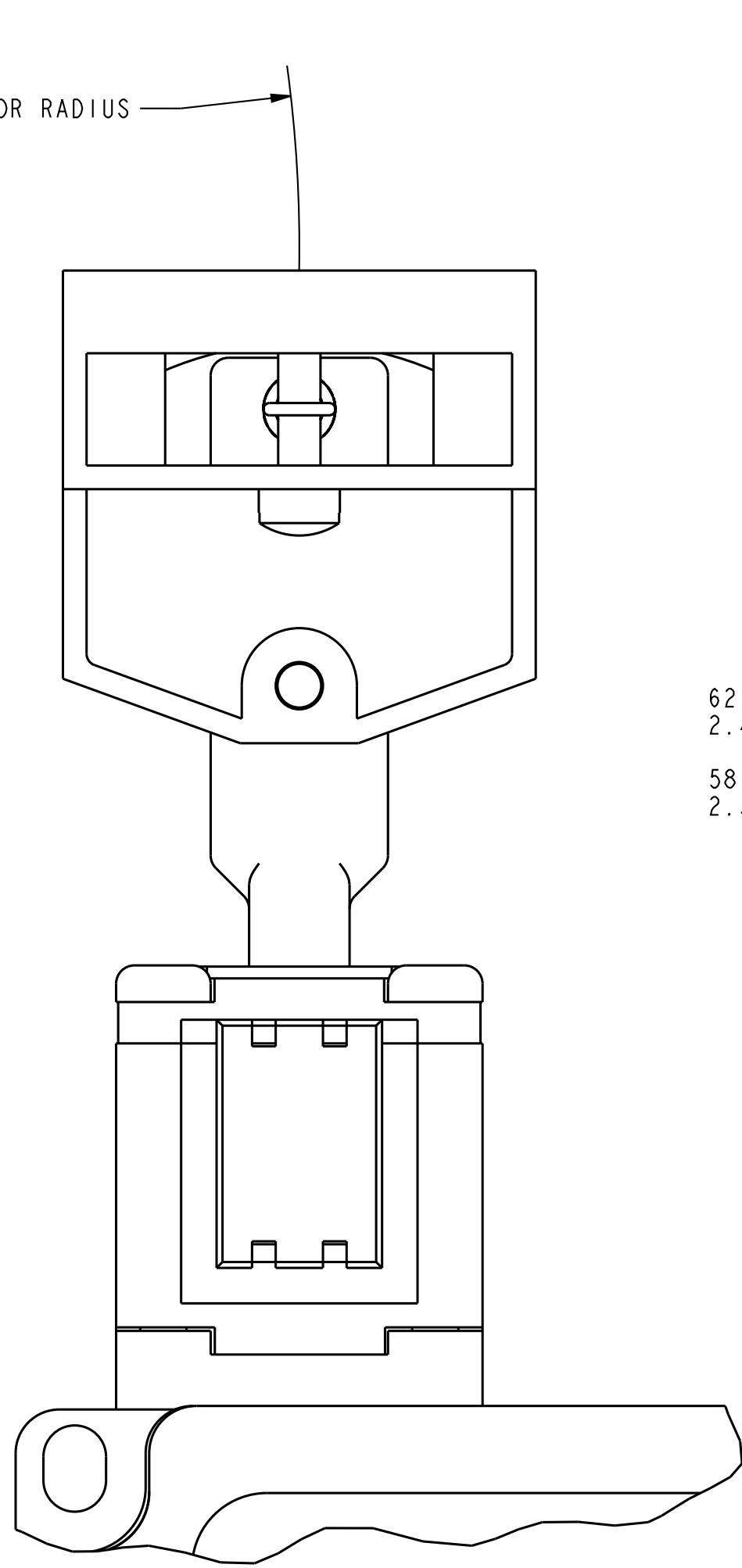
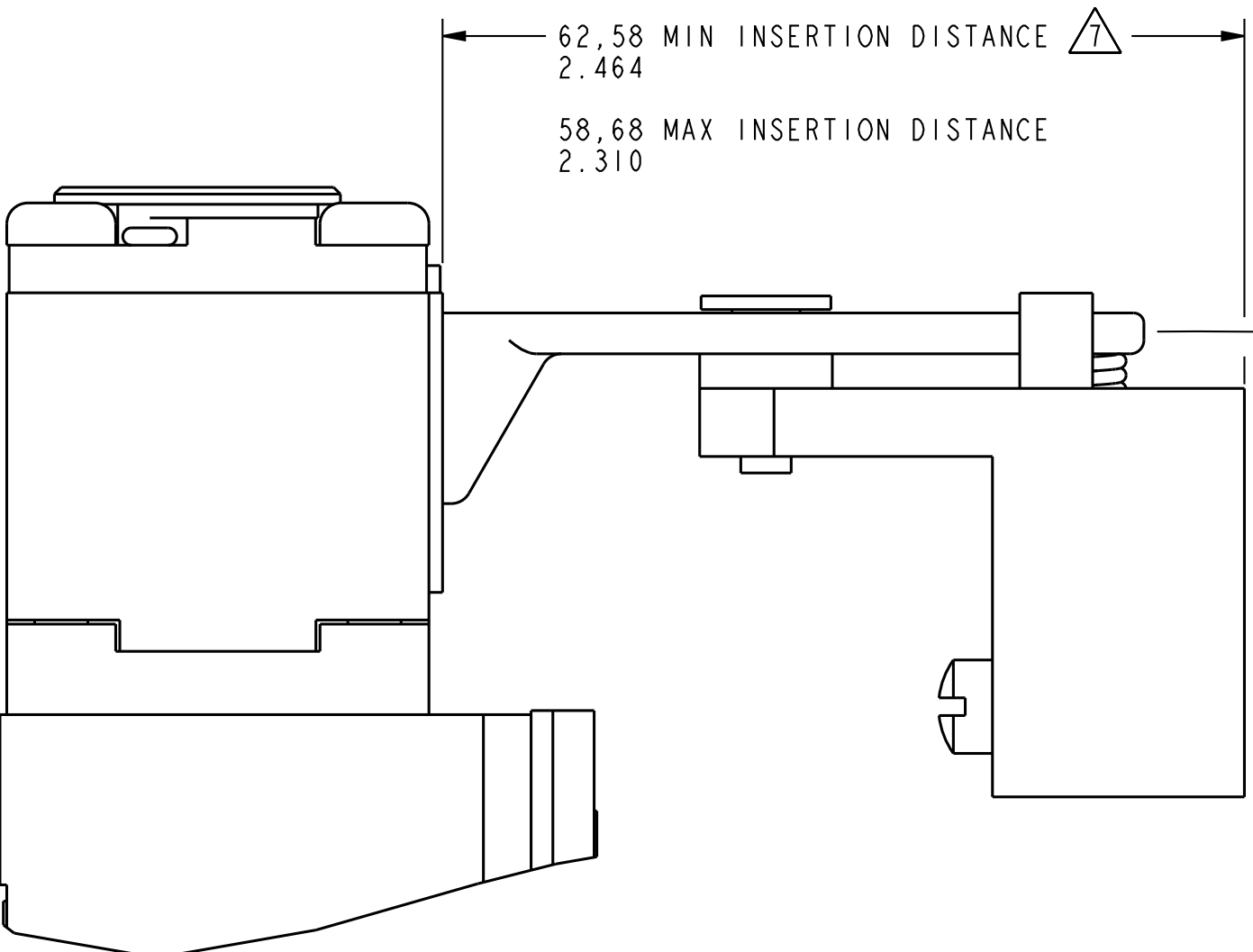
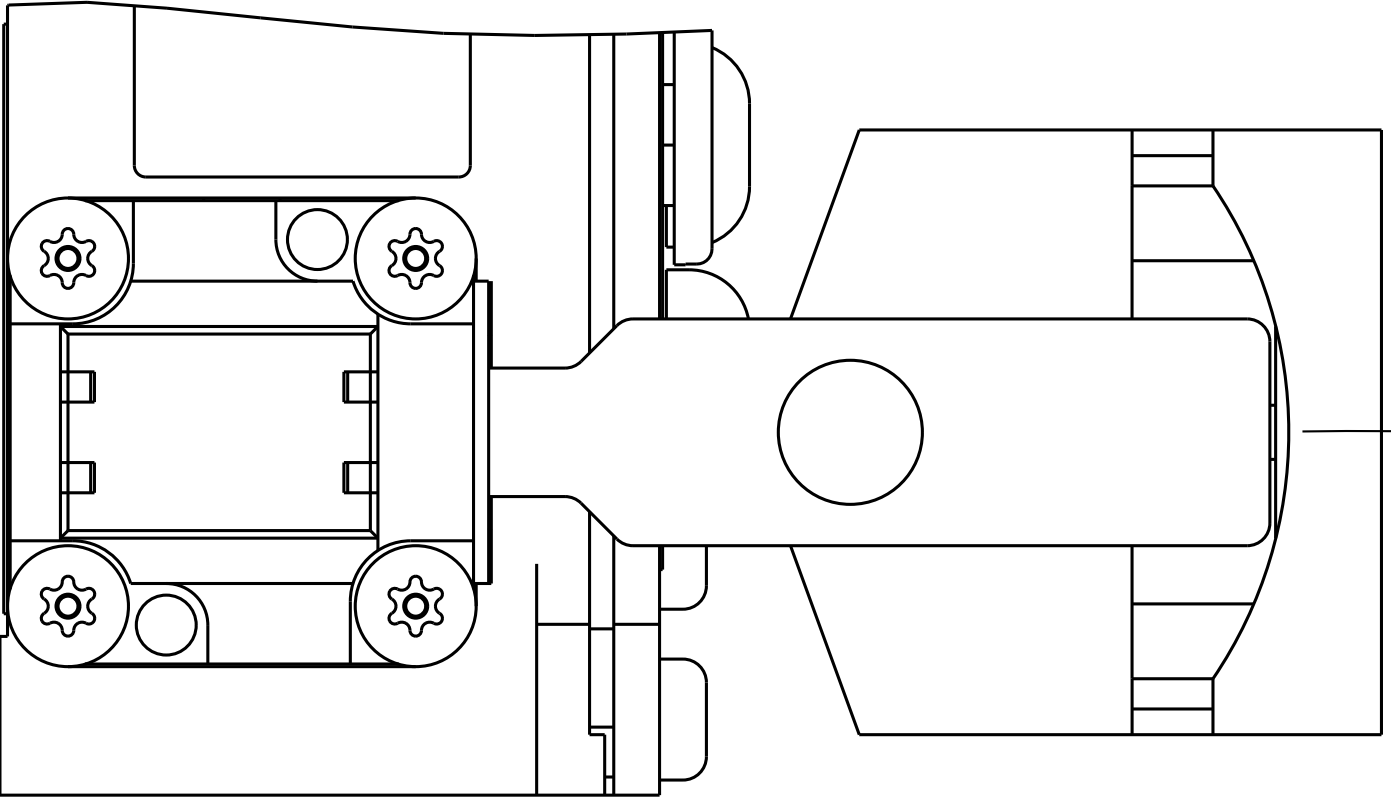
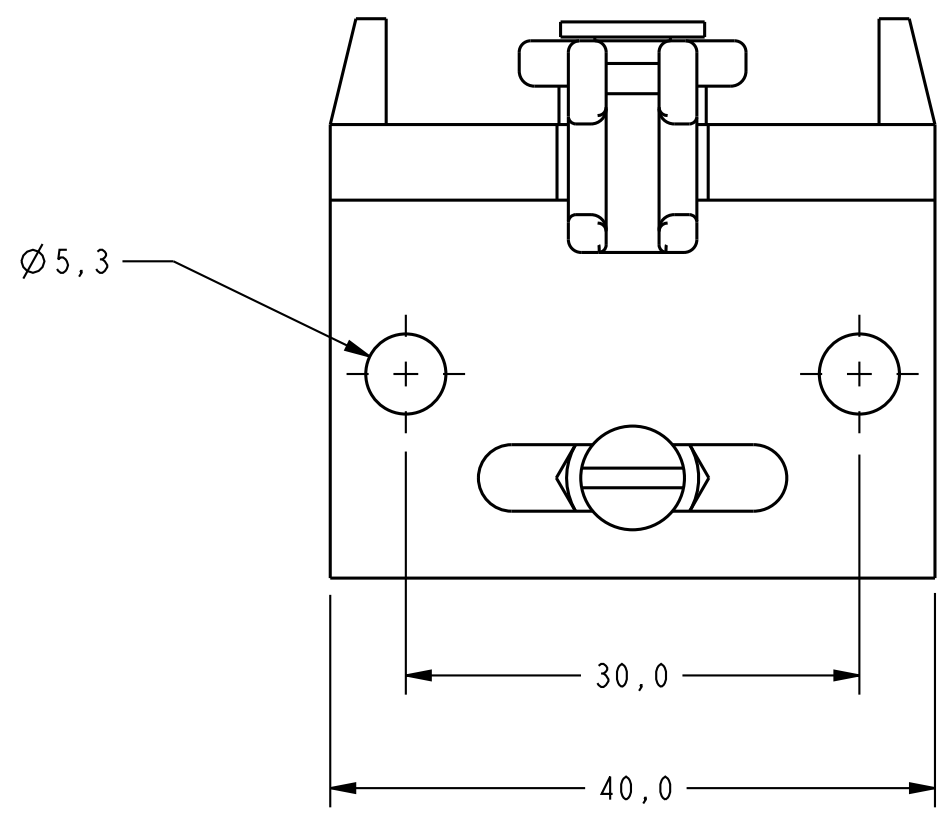
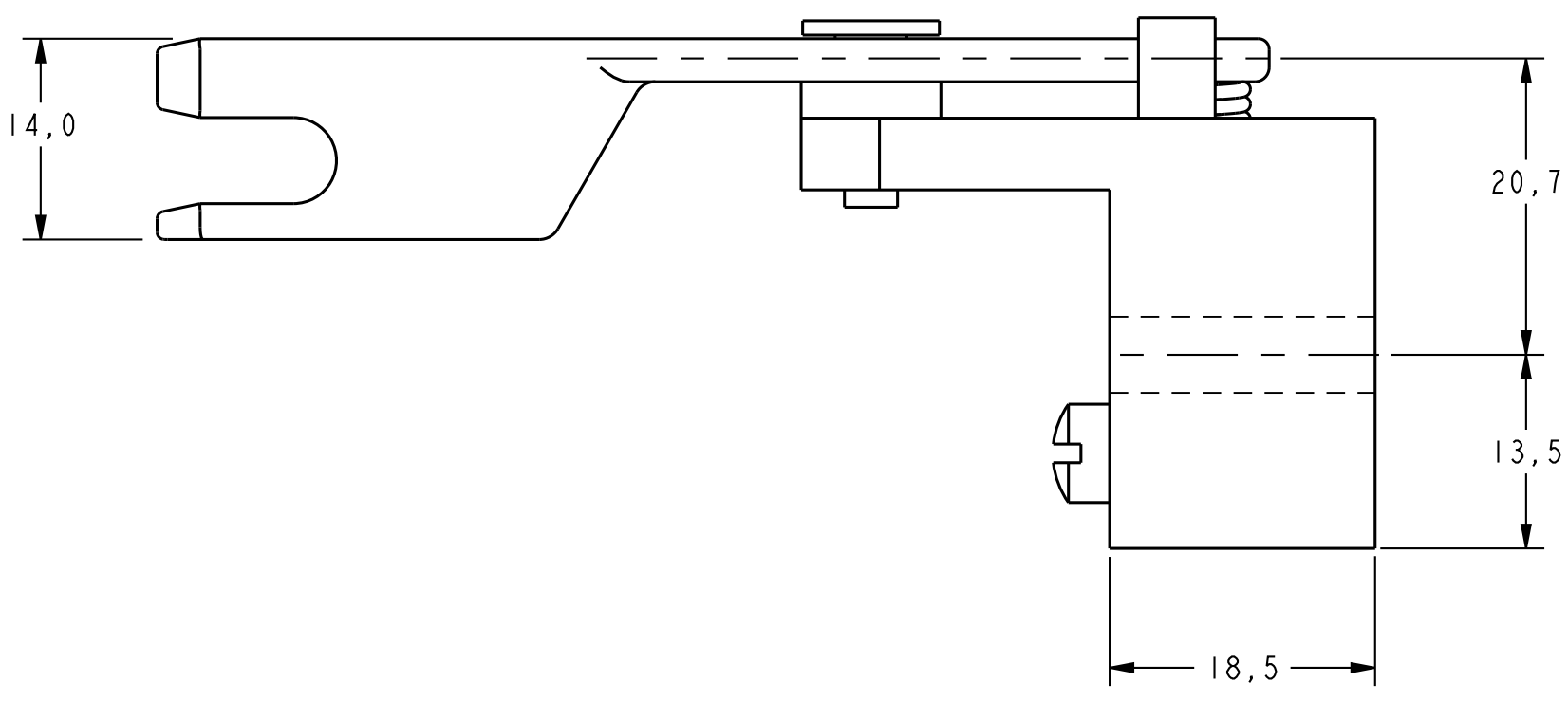
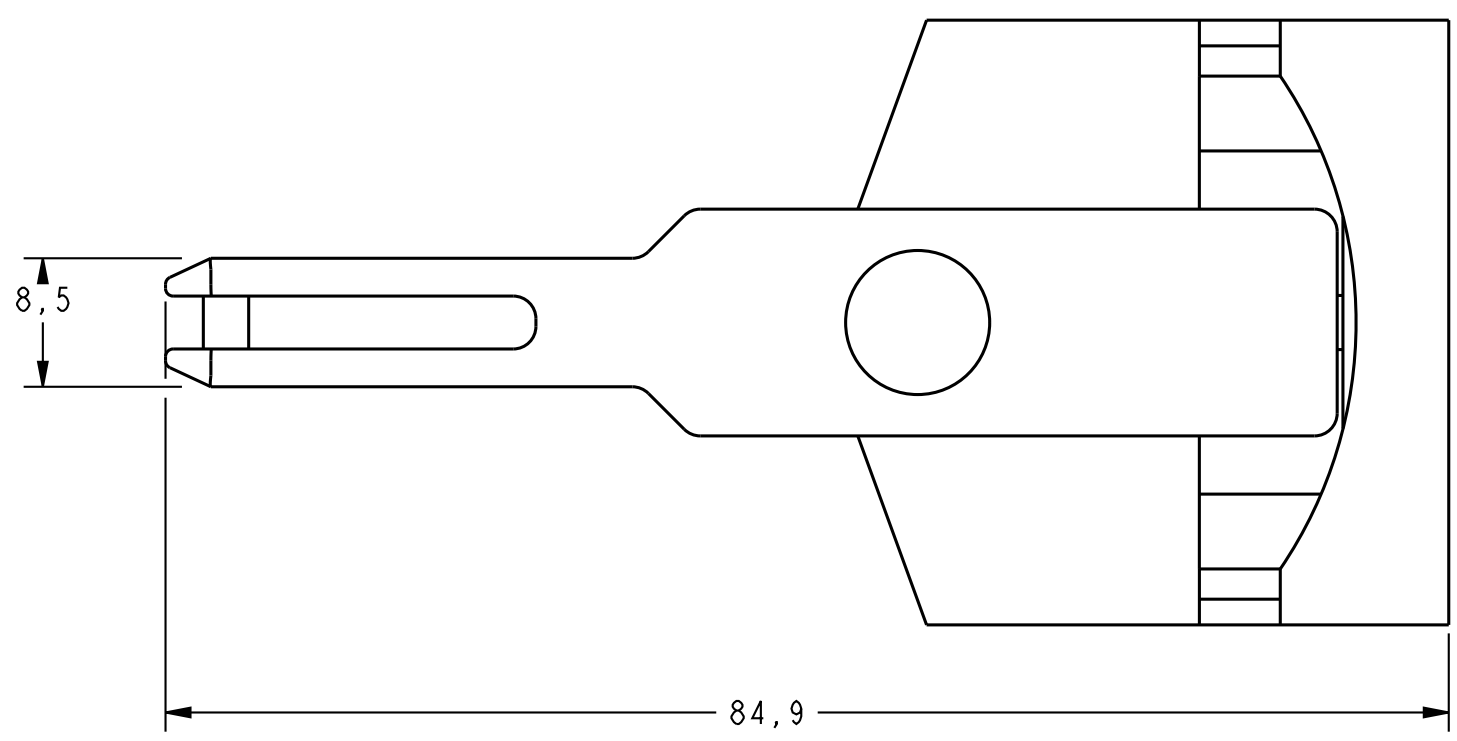
KEY CODE 8



FRONT KEY ENTRY

TOP KEY ENTRY

KEY CODE 9

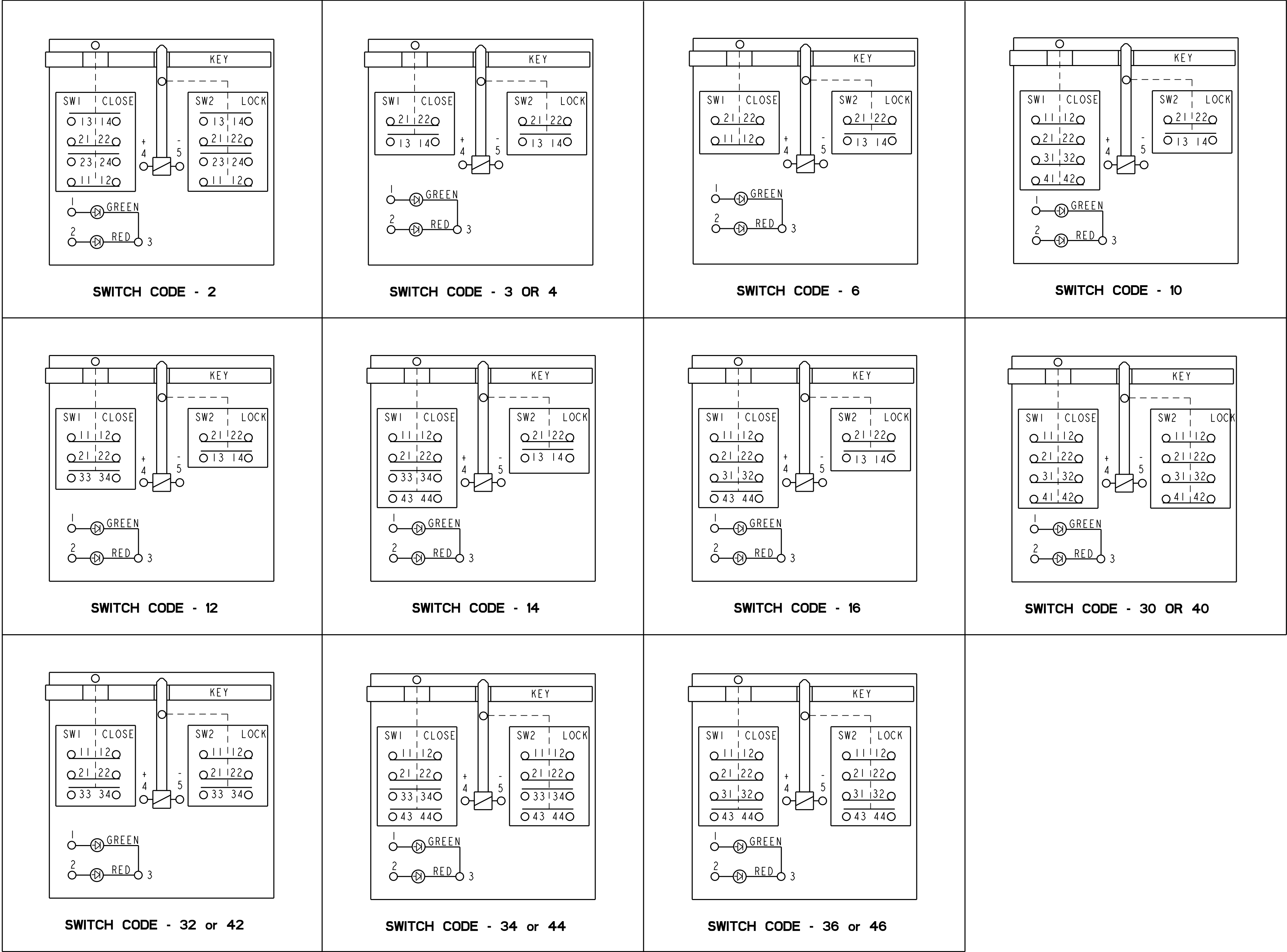


TOP KEY ENTRY

FRONT KEY ENTRY

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FED. MFG. CODE 91929		CATALOG LISTING	
MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK	
DESIGN UNITS ☒ SI METRIC ☐		GK SERIES CHART 4	
WEIGHT 1,5 KG / 3,3 LB			

THIRD ANGLE PROJECTION			
SCALE 2 : 1			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
NO PLACES	INCH	TOL.	MM
ONE PLACE	1/16	0,04	1,0
TWO PLACES	1/32	0,0156	0,30
THREE PLACES	1/64	0,0078	0,15
ANGLES	1/16	0,0078	0,15
DESIGN UNITS ☒ SI METRIC ☐		US CUSTOMARY ☐	



BODY / INDICATOR CODES - L OR R
TYPE / OVER-RIDE CODES - A OR B
DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED

PTC/CAD 3D
DRAWN
MAM LOC 98
CHECK
CMH 12MAY99
CHECK
CMH
PRG
04FEB09
CHECK
CMH
RELEASE NO. PR-23758
PAGE 10 OF 16
REPLACES -

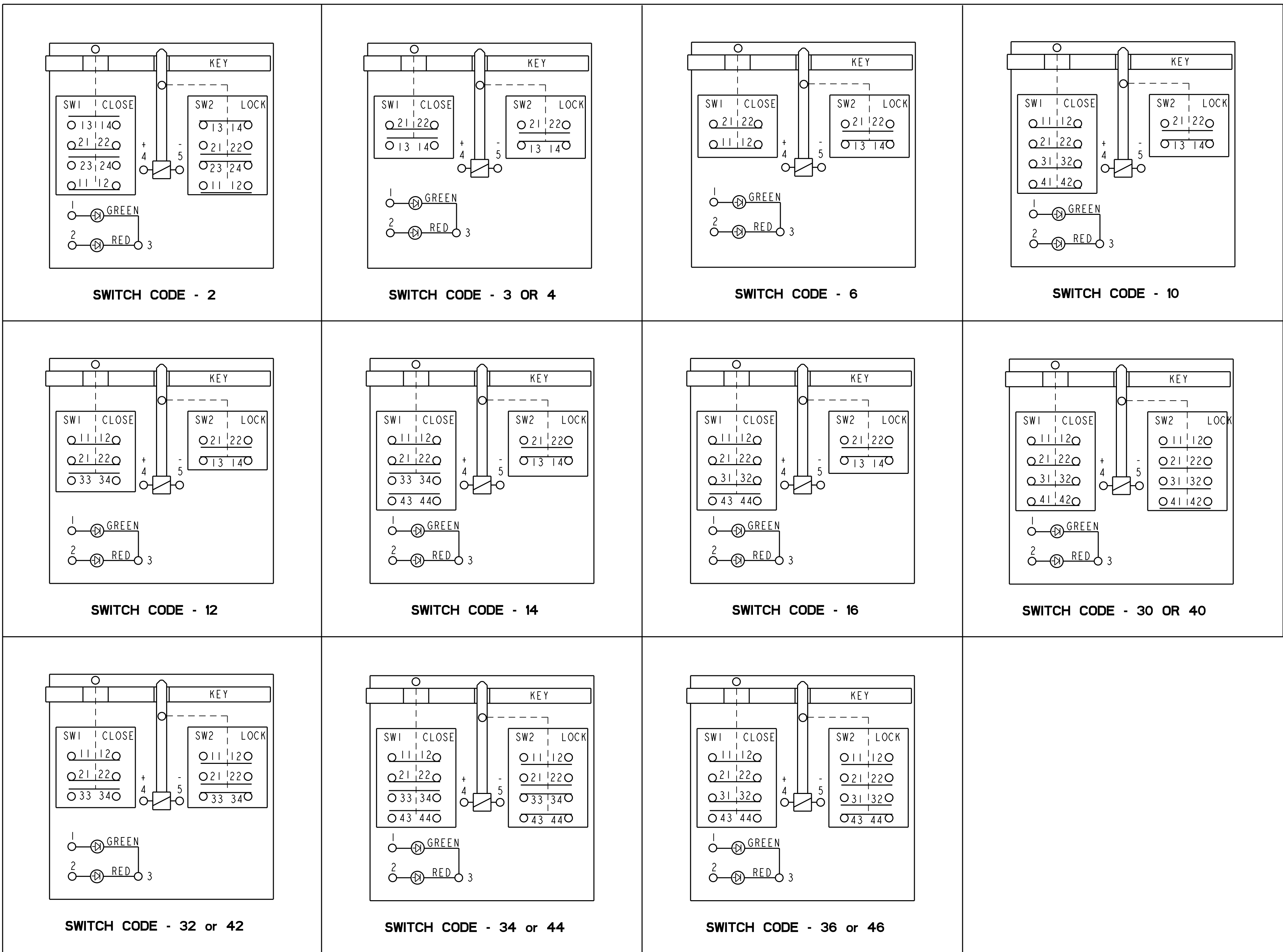
REVISIONS
N 0047583
S 04FEB09
P 0065737
R 0083578

5254
ISSUE
DRAWING NUMBER
MGMK SERIES CHART 4

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.		FED. MFG. CODE 91929		CATALOG LISTING	
MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK		GK SERIES CHART 4	
DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY		WEIGHT 1.5 KG / 3.3 LB			

THIRD ANGLE PROJECTION			
SCALE NTS			
DO NOT SCALE PRINT			
TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
NO PLACES	ONE PLACE	TWO PLACES	THREE PLACES
MM	IN	MM	IN
±.04	±.001	±.02	±.0005
0.01/0.06	0.01/0.06	0.01/0.06	0.01/0.06

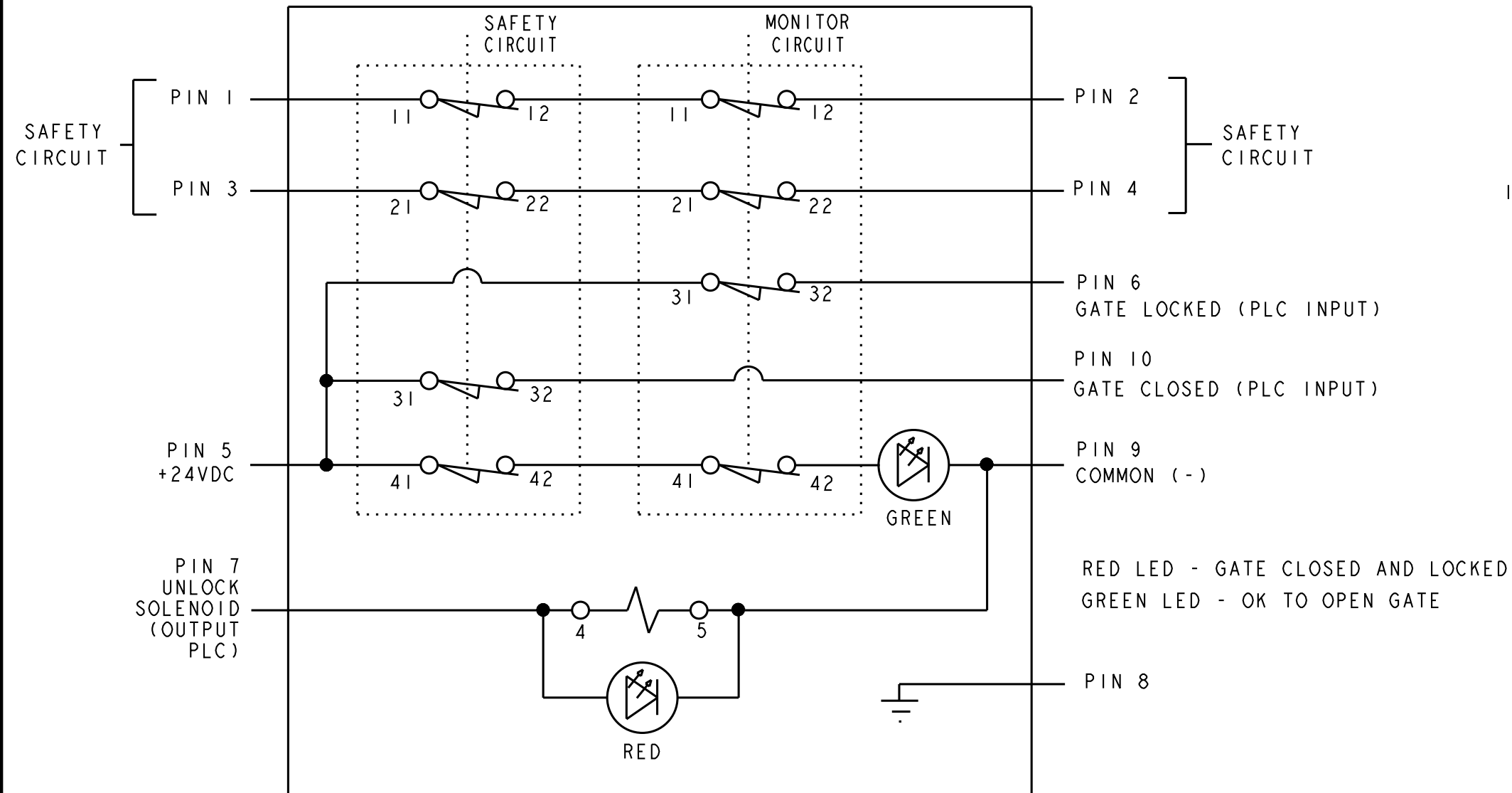




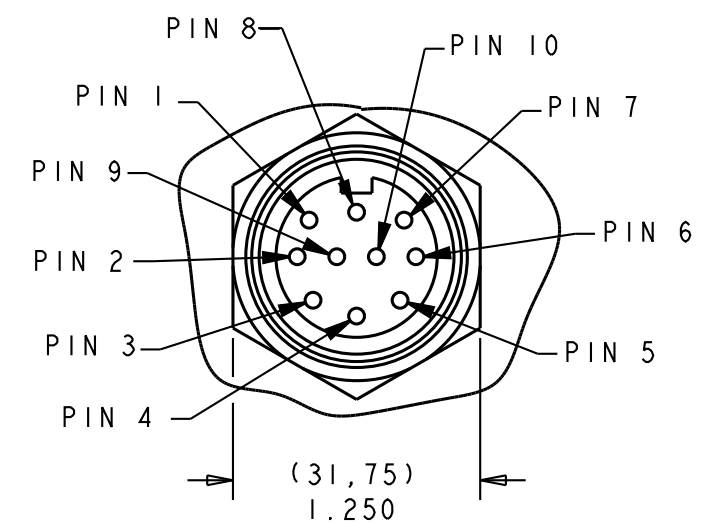
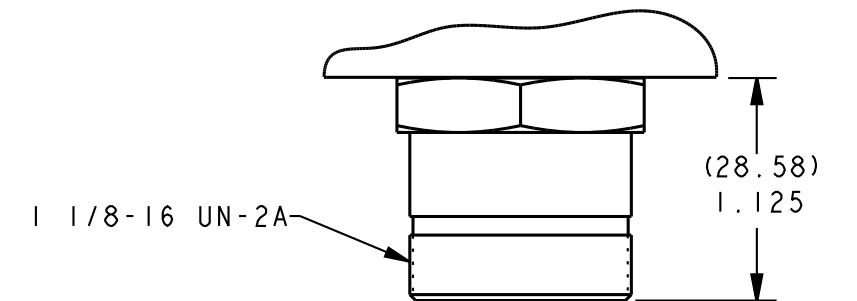
BODY / INDICATOR CODES - L OR R
 TYPE / OVER-RIDE CODES - S OR T
 DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED



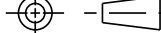
MODIFICATION CODE: F05



SWITCH DIAGRAM STATE
IS CLOSED AND LOCKED



300V 7A
BRAD-HARRISON PART NO. 3R1006A21F010
OR EQUIVALENT

THIRD ANGLE PROJECTION			
			
SCALE		NTS	
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :			
DIM. mm	TOL mm / in	DIM. mm / in	TOL mm / in
NO PLACES X	1 / 0.0	X X	0.8 / 0.03
ONE PLACE X.X	0.4 / 0.016	X.XX	0.38 / 0.015
TWO PLACES X.XX	0.15 / 0.006	X.XXX	0.13 / 0.005
THREE PLACES ANGLES			
SI METRIC		US CUSTOMARY	
DESIGN UNITS		☒	
WEIGHT		2,3 kg / 5 LB MAX	

