

DUAL ENTRY SOLENOID KEY OPERATED SAFETY INTERLOCK NOMENCLATURE

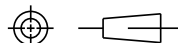
GK

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		SLOT OVER-RIDE	6 240 VAC	
		F	PG 13.5 - BUNA-N SEALS	14	SLOW ACTING 2 NC - 2 NO BBM					T	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								

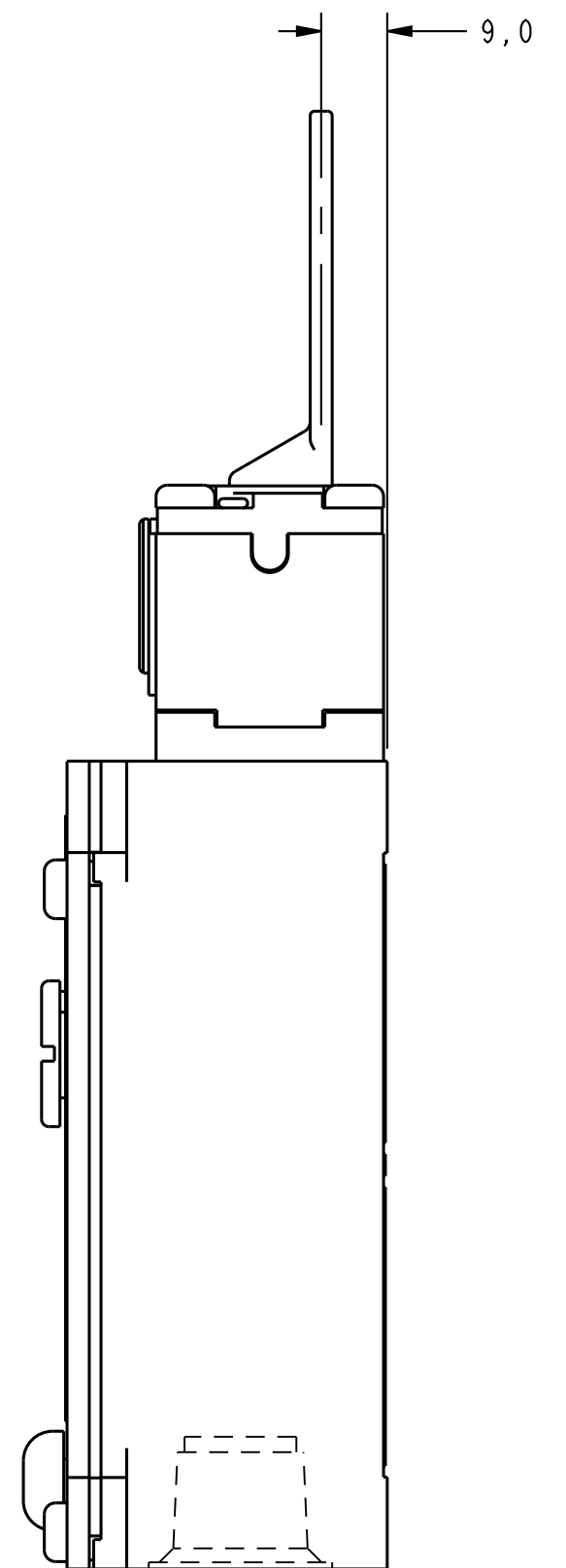
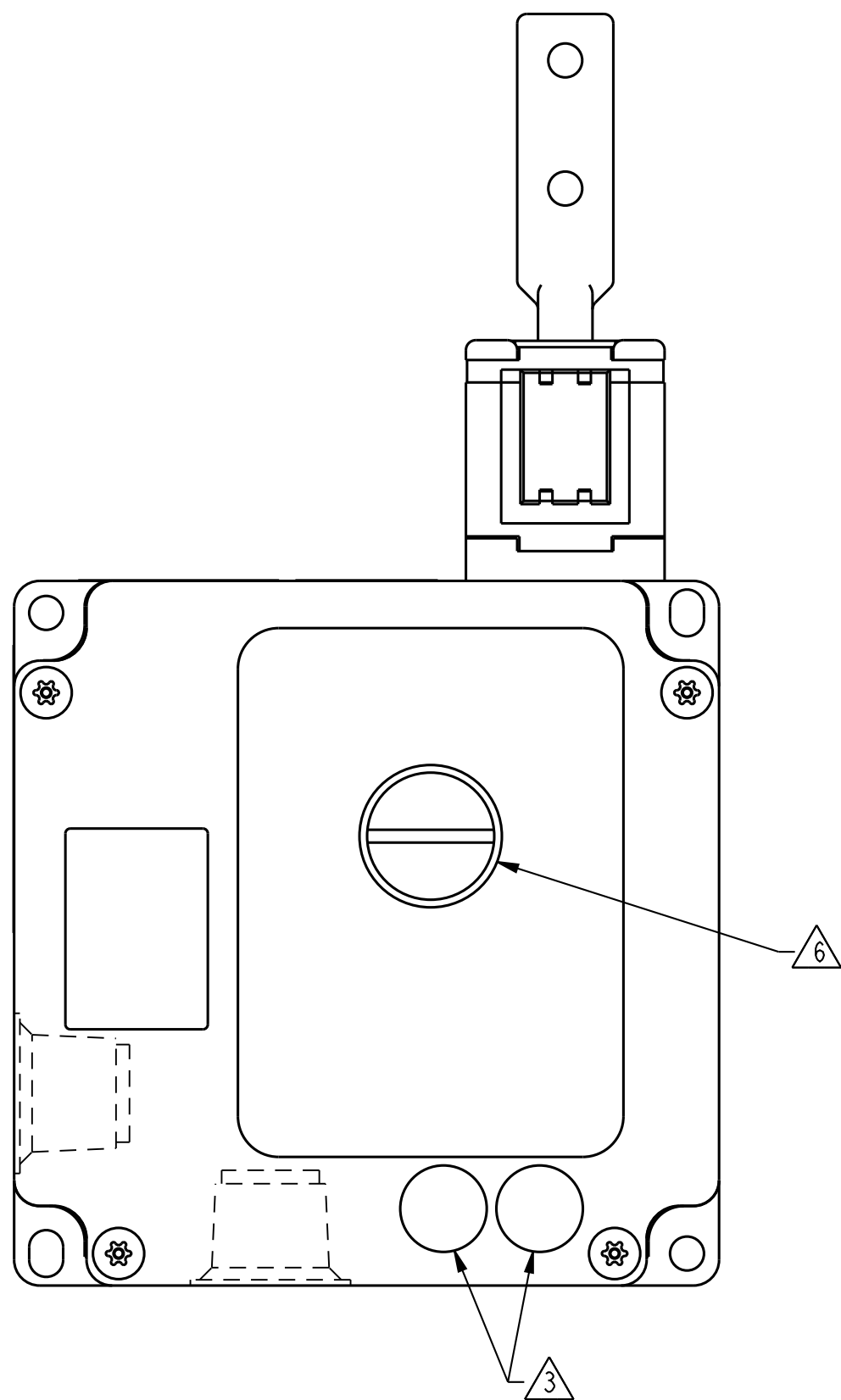
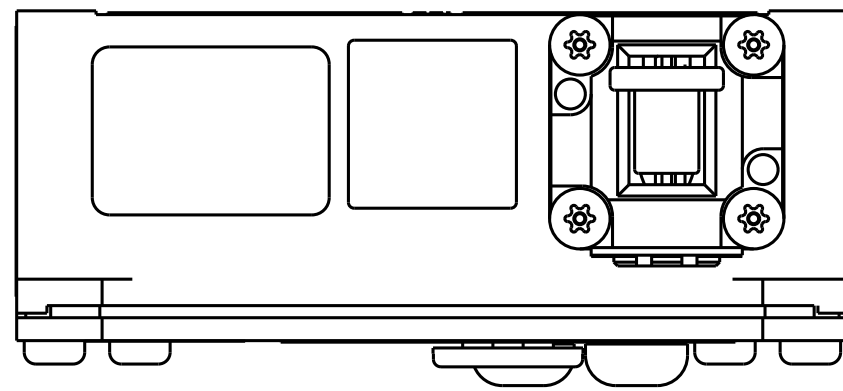
NOTES

- 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
AC		DC		IP68 NEMA 1, 4, 6P, 12 & 13		   IEC 947-5-1 EN60947-5-1
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						

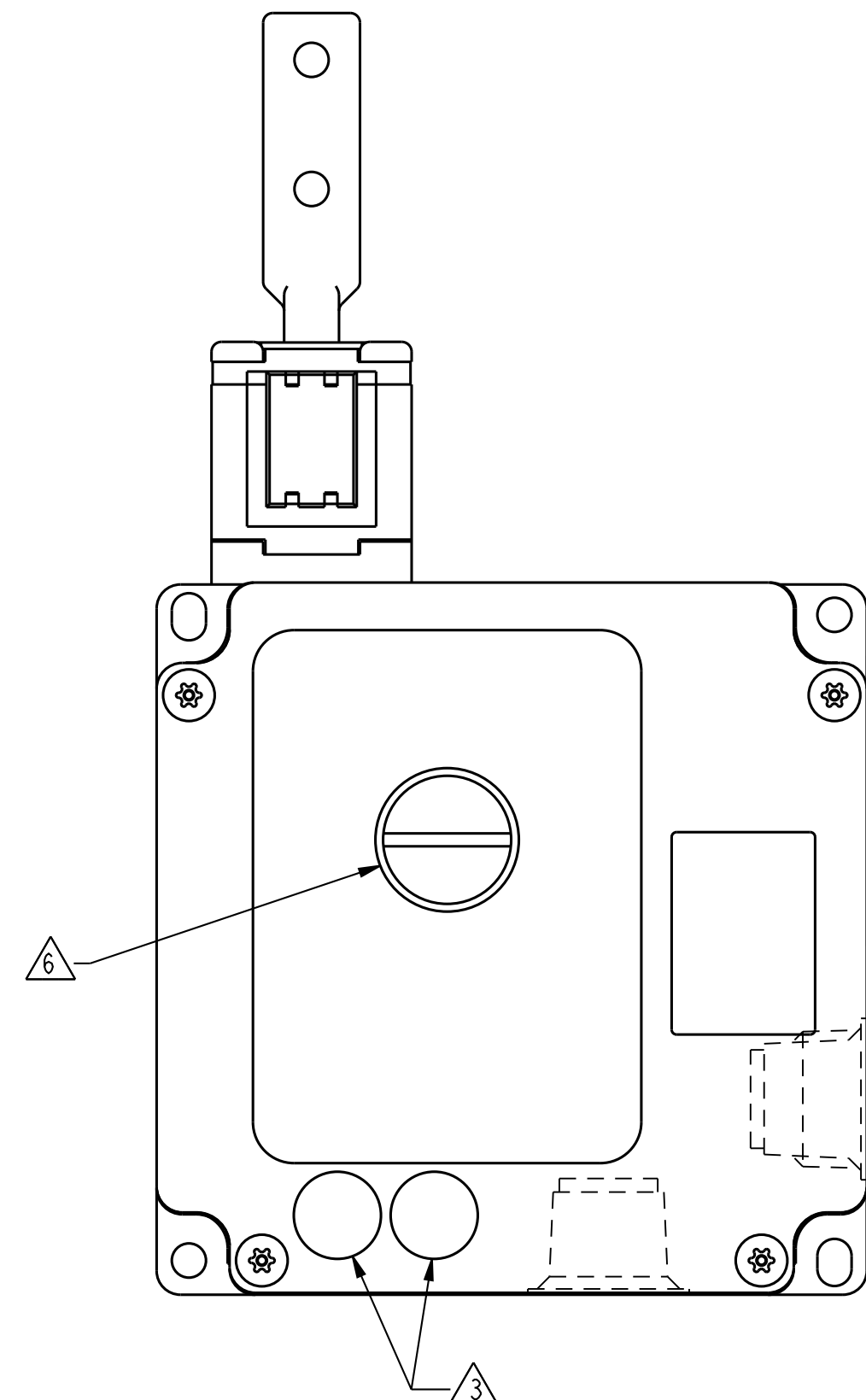
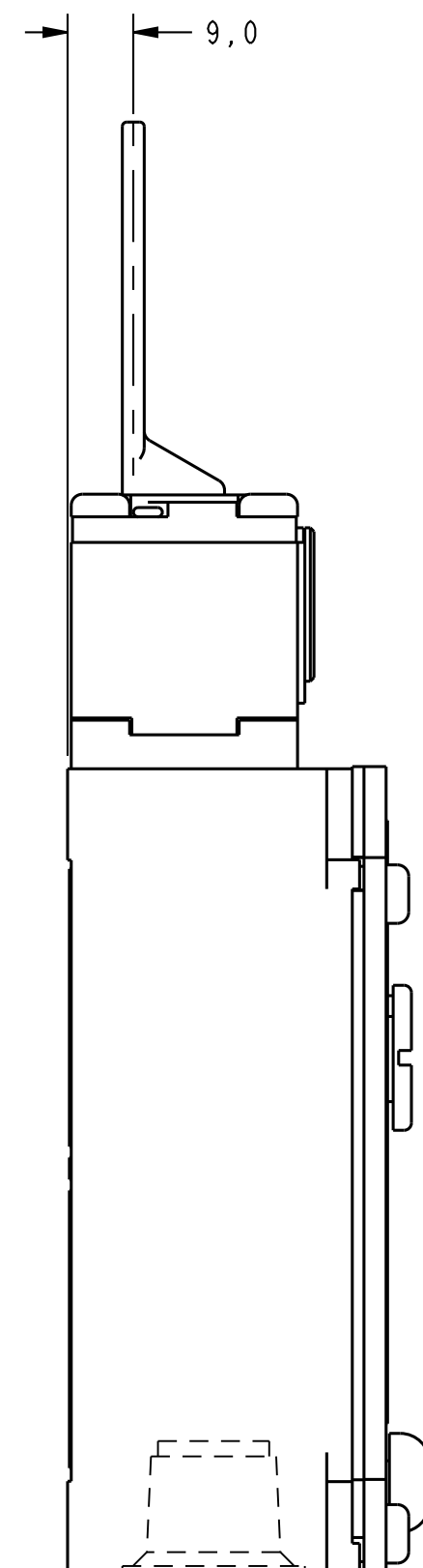
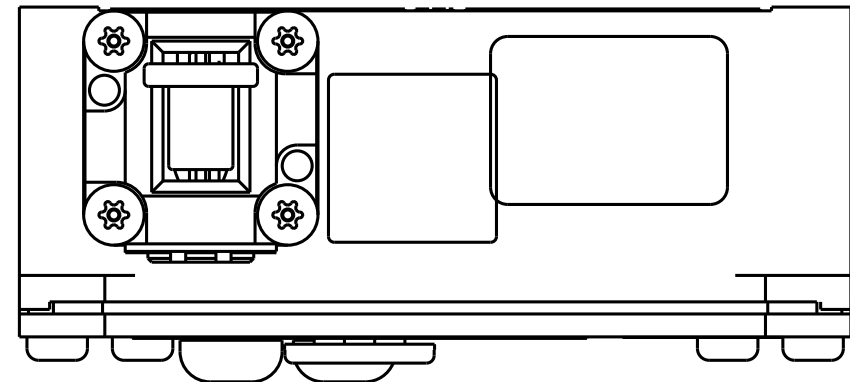
THIRD ANGLE PROJECTION			
			
SCALE		NTS	
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
DIM.		TOL.	
NO PLACES		1.12, 0.04	
ONE PLACE		0.47, 0.016	
TWO PLACES		0.384, 0.015	
THREE PLACES		0.312	
ANGLES		0.157, 0.005	
SI 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	



TOP KEY ENTRY

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.			DIM. TOL. INCH INCH 1/8" ± .004 1/16" ± .002 3/32" ± .003 1/32" ± .001	
FED. MFG. CODE 91929	CATALOG LISTING		NO PLACES X 1/8" ± .004 ONE PLACE 1/16" ± .002 TWO PLACES 3/32" ± .003 THREE PLACES 1/32" ± .001 ANGLES	
MICRO SWITCH a Honeywell Division	SWITCH - DOOR INTERLOCK	GK SERIES CHART 4	DESIGN UNITS 	US CURRENCY 
			WEIGHT 1,5 kg / 3.3 LB	



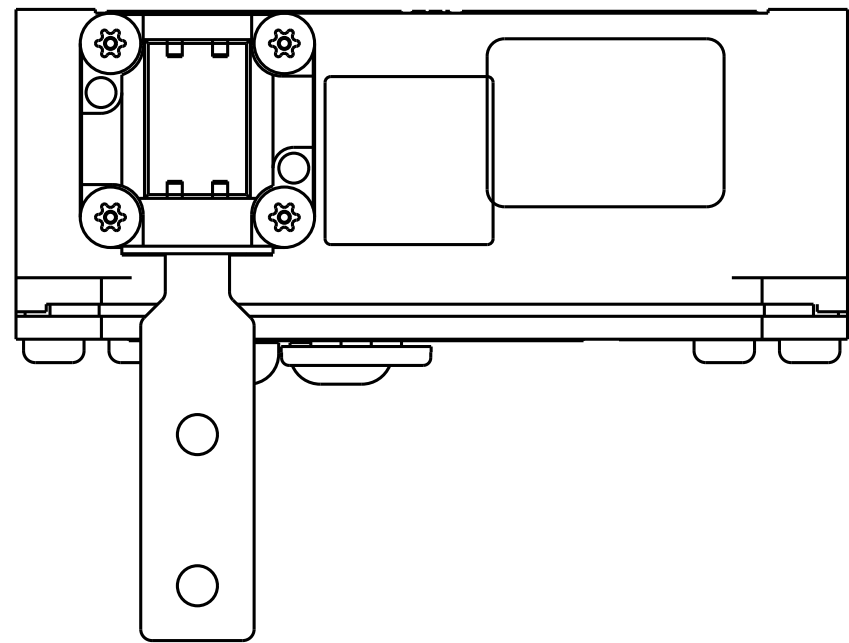
TOP KEY ENTRY

FRONT KEY ENTRY

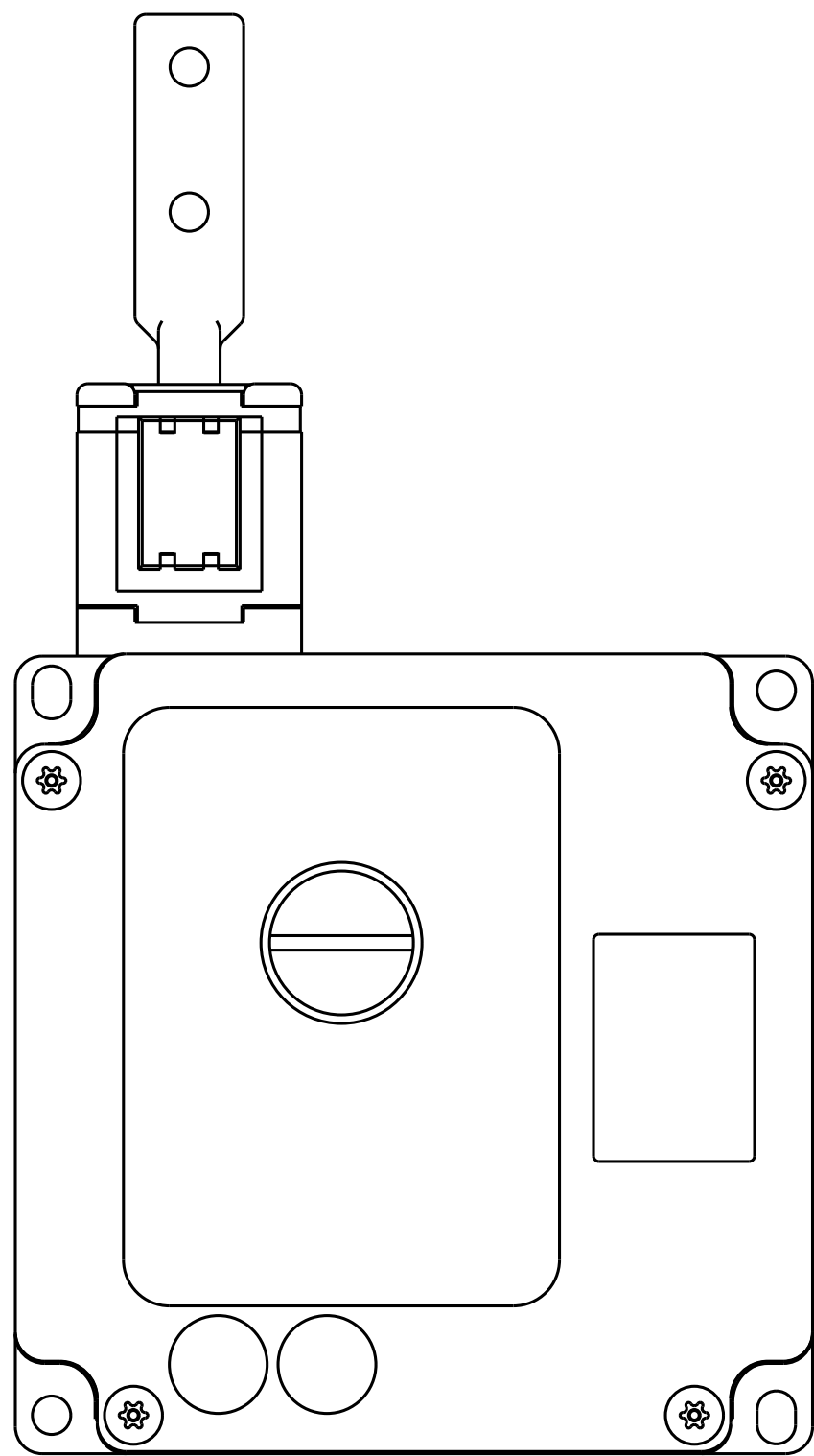
BODY / INDICATOR CODES L OR F

[illegible]

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.		<table><tr><td>DIM.</td><td>TOL.</td><td>DIM.</td><td>TOL.</td></tr><tr><td>mm / in</td><td>mm / in</td><td>mm / in</td><td>mm / in</td></tr><tr><td>NO PLACES</td><td>1 / 64</td><td>1.1</td><td>0.003</td></tr><tr><td>TWO PLACES</td><td>1 / 32</td><td>1.151</td><td>0.003</td></tr><tr><td>THREE PLACES</td><td>0.151 / .006</td><td>1.151</td><td>0.151 / .005</td></tr><tr><td>ANGLES</td><td></td><td></td><td></td></tr></table>		DIM.	TOL.	DIM.	TOL.	mm / in	mm / in	mm / in	mm / in	NO PLACES	1 / 64	1.1	0.003	TWO PLACES	1 / 32	1.151	0.003	THREE PLACES	0.151 / .006	1.151	0.151 / .005	ANGLES			
DIM.	TOL.	DIM.	TOL.																								
mm / in	mm / in	mm / in	mm / in																								
NO PLACES	1 / 64	1.1	0.003																								
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THREE PLACES	0.151 / .006	1.151	0.151 / .005																								
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																									

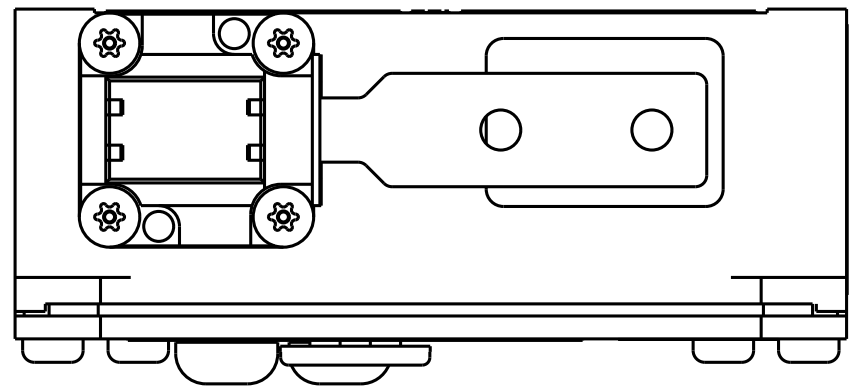
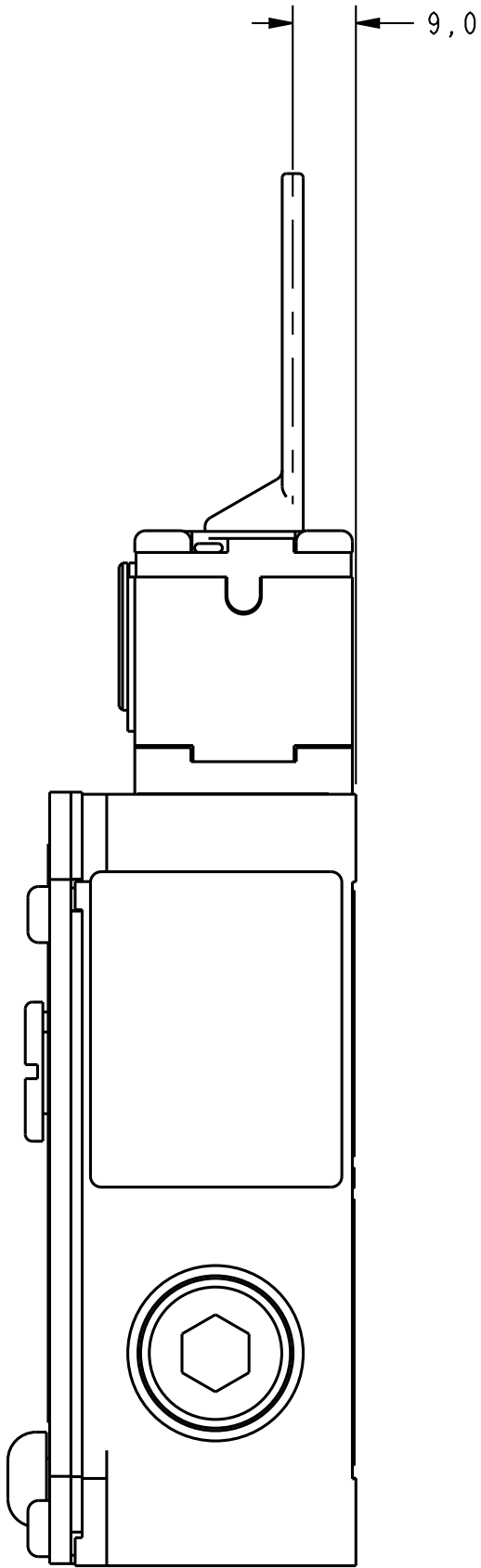


WITH KEY IN FRONT ENTRY POSITION

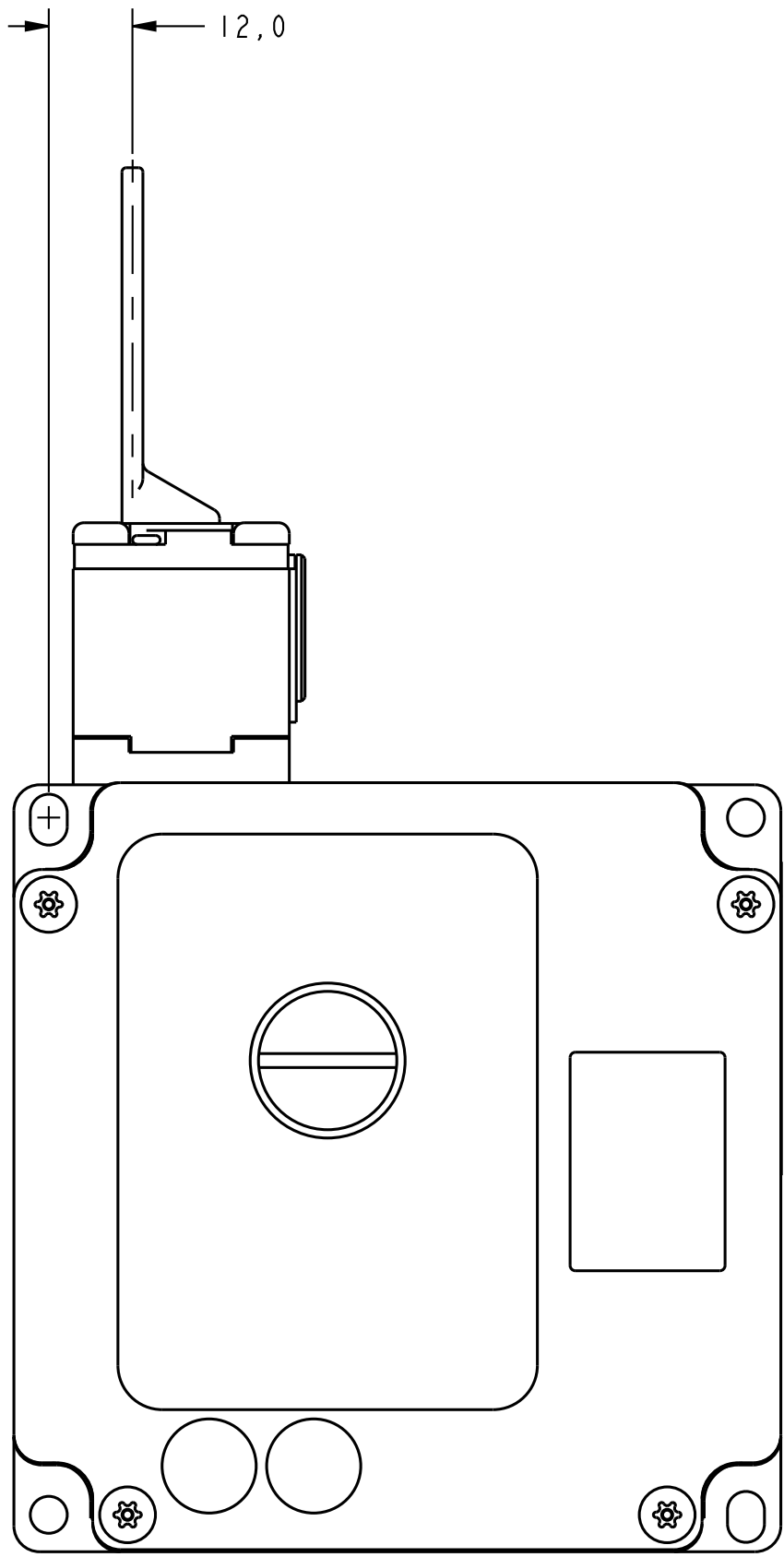


WITH KEY IN TOP ENTRY POSITION

HEAD CODE L

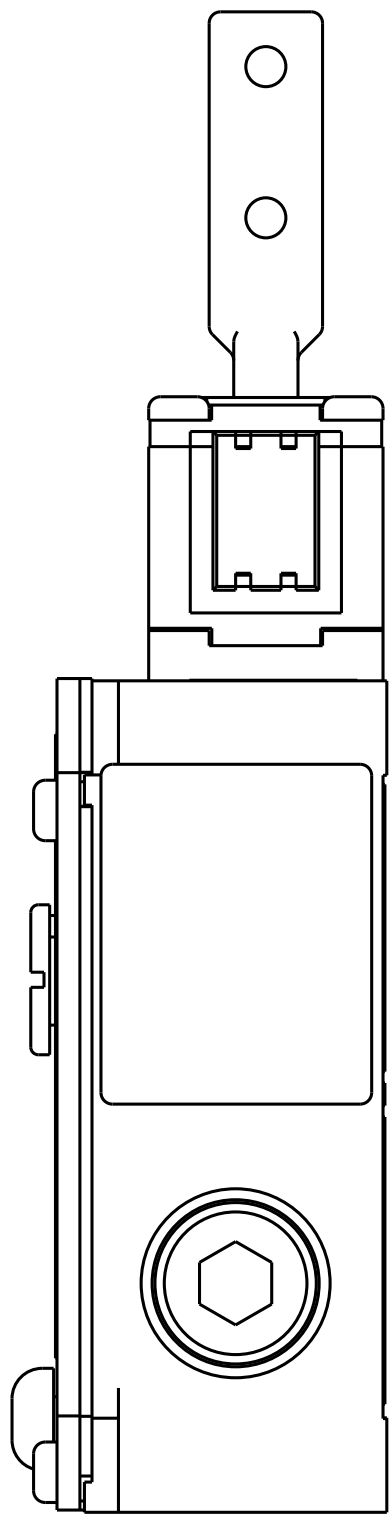


WITH KEY IN FRONT ENTRY POSITION



WITH KEY IN TOP ENTRY POSITION

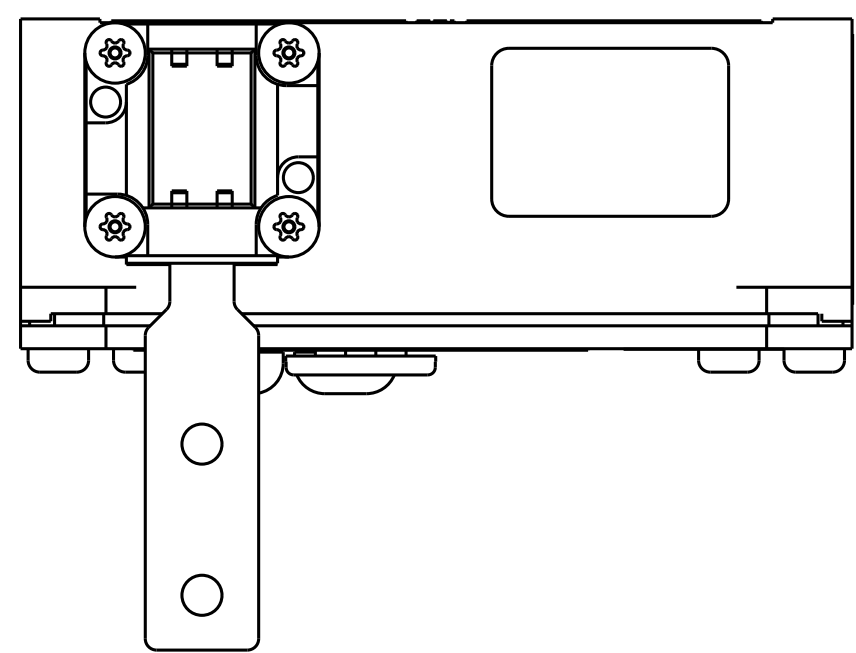
HEAD CODE M



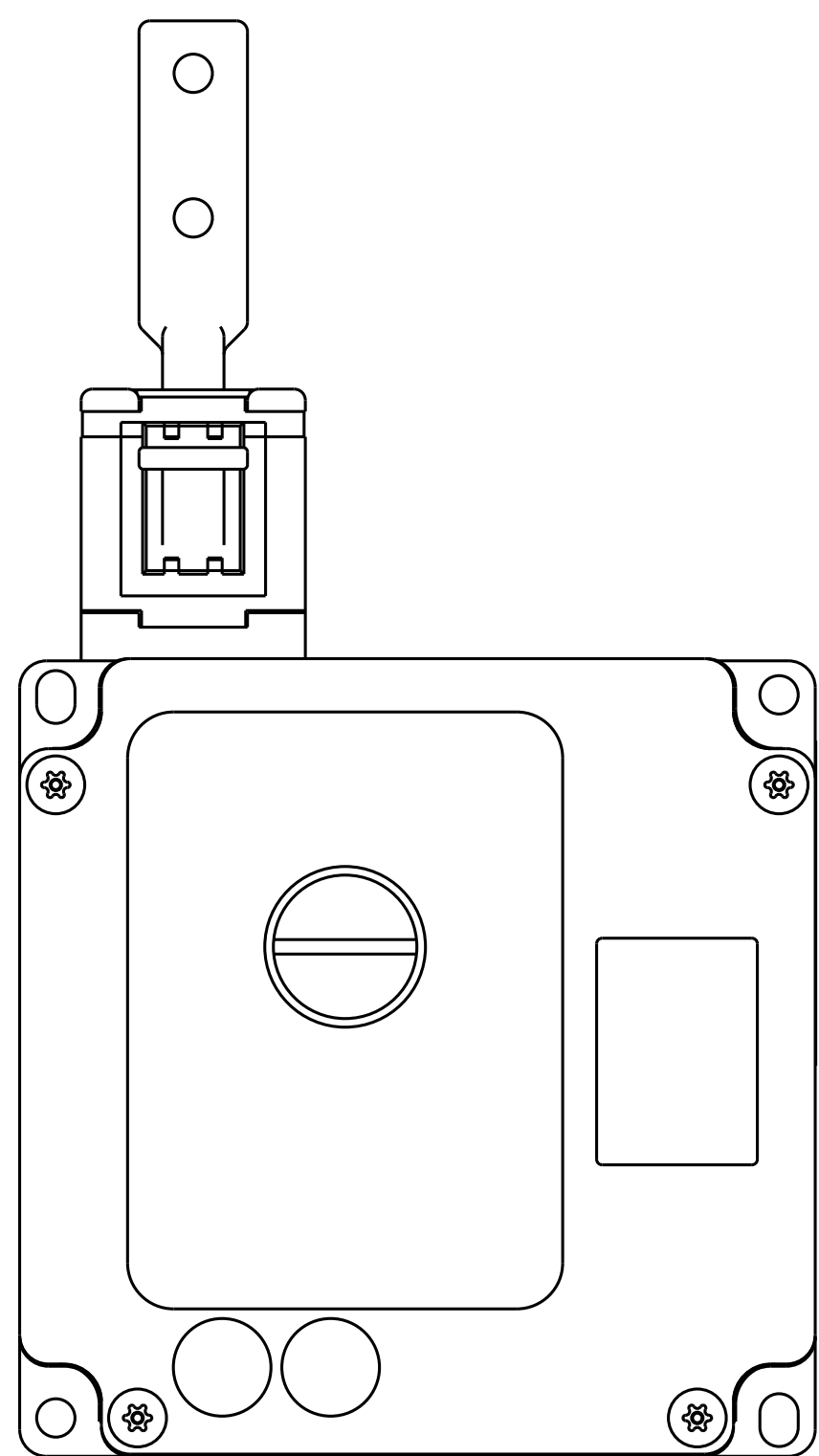
PTC/CAD 3D		DRAWING NUMBER		ISSUE 5254		MKG SERIES CHART 4	
DRAWN		PAGE 4 OF 16		RELEASE NO. PR-23758		REPLACES -	
REVISIONS							
N	0047583	SSK	04FEB09	P	0065737	PRS	31MAY10
R	0083578	MSR	10NOV11				
MAN	28SEP08	CHECK	CMH 12MAY09	CHECK	PRS 04FEB09	CHECK	CMH 10NOV11

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FED. MFG. CODE 91929				CATALOG LISTING																			
MICRO SWITCH a Honeywell Division				SWITCH - DOOR INTERLOCK				GK SERIES CHART 4				NO. PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES				DIM. mm. in.				TOL. mm. in.			
												X 1.74 X 0.41/0.18 X 1.1X X 0.157-0.06				X 0.41/0.18 X 0.381/0.157 X 1.1X							
												SI METRIC ☒				US CUSTOMARY ☐							
												DESIGN UNITS											
												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		TOL.	
ONE PLACE	±.2	0.01/.04	±.2
TWO PLACES	±.2X	0.15/.006	±.2X
THREE PLACES			
ANGLES			
WEIGHT 1,5 kg / 3.3 LB			

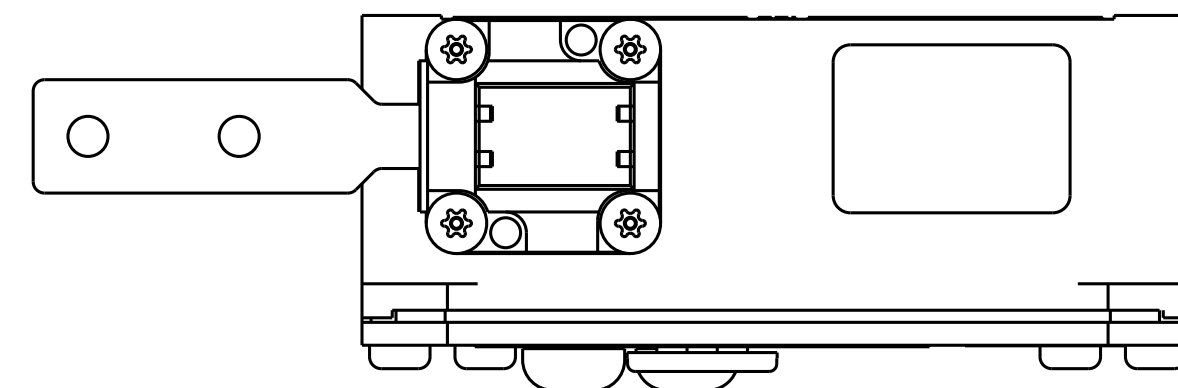
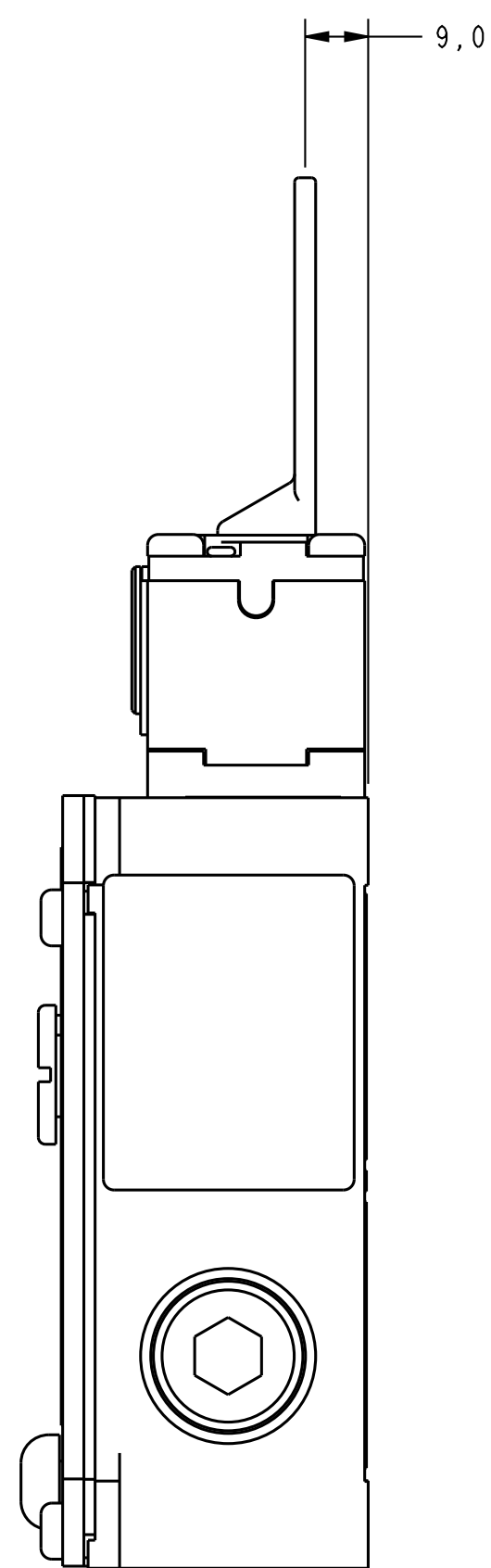


WITH KEY IN FRONT ENTRY POSITION

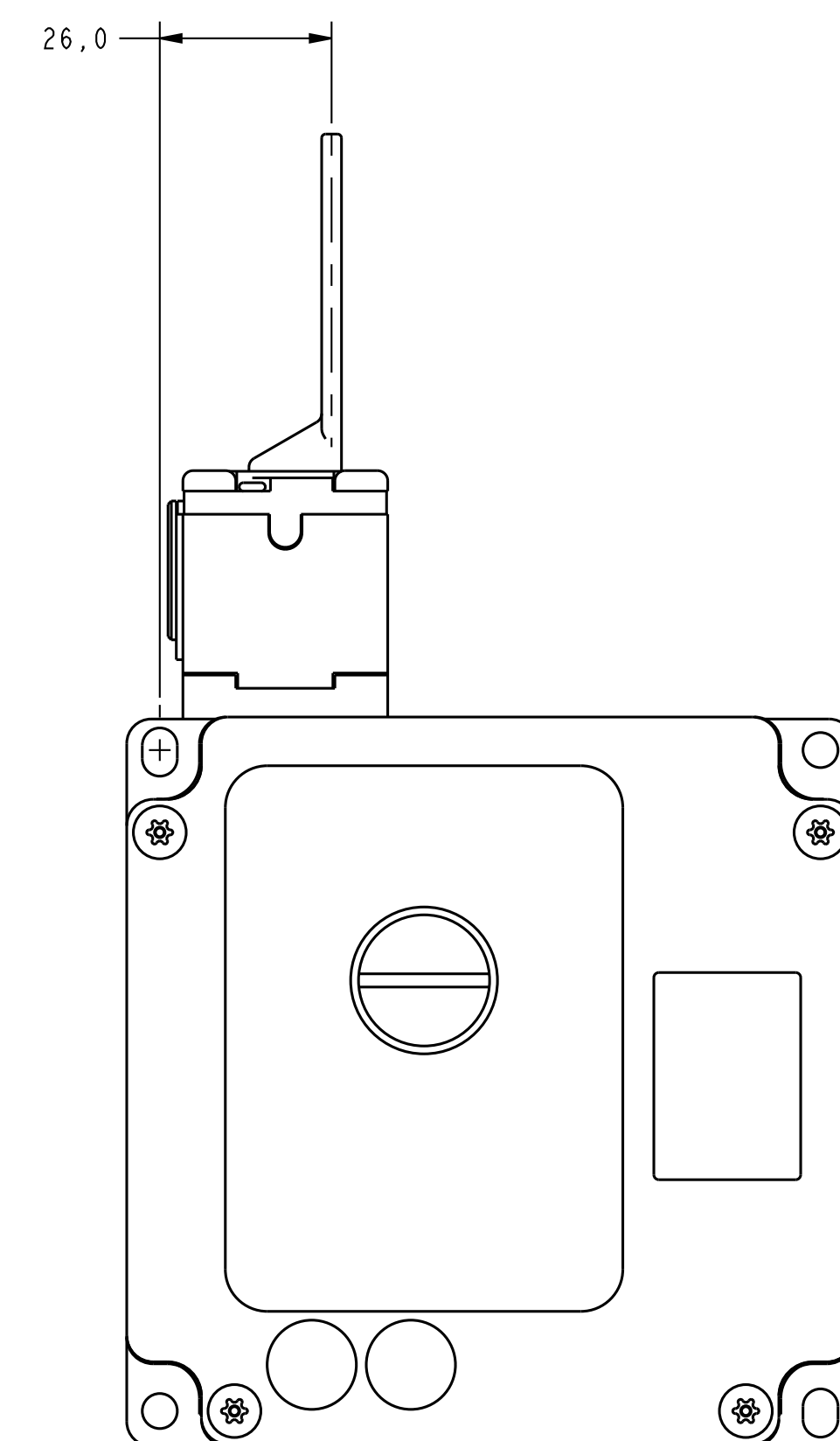


WITH KEY IN TOP ENTRY POSITION

HEAD CODE N



WITH KEY IN FRONT ENTRY POSITION



WITH KEY IN TOP ENTRY POSITION

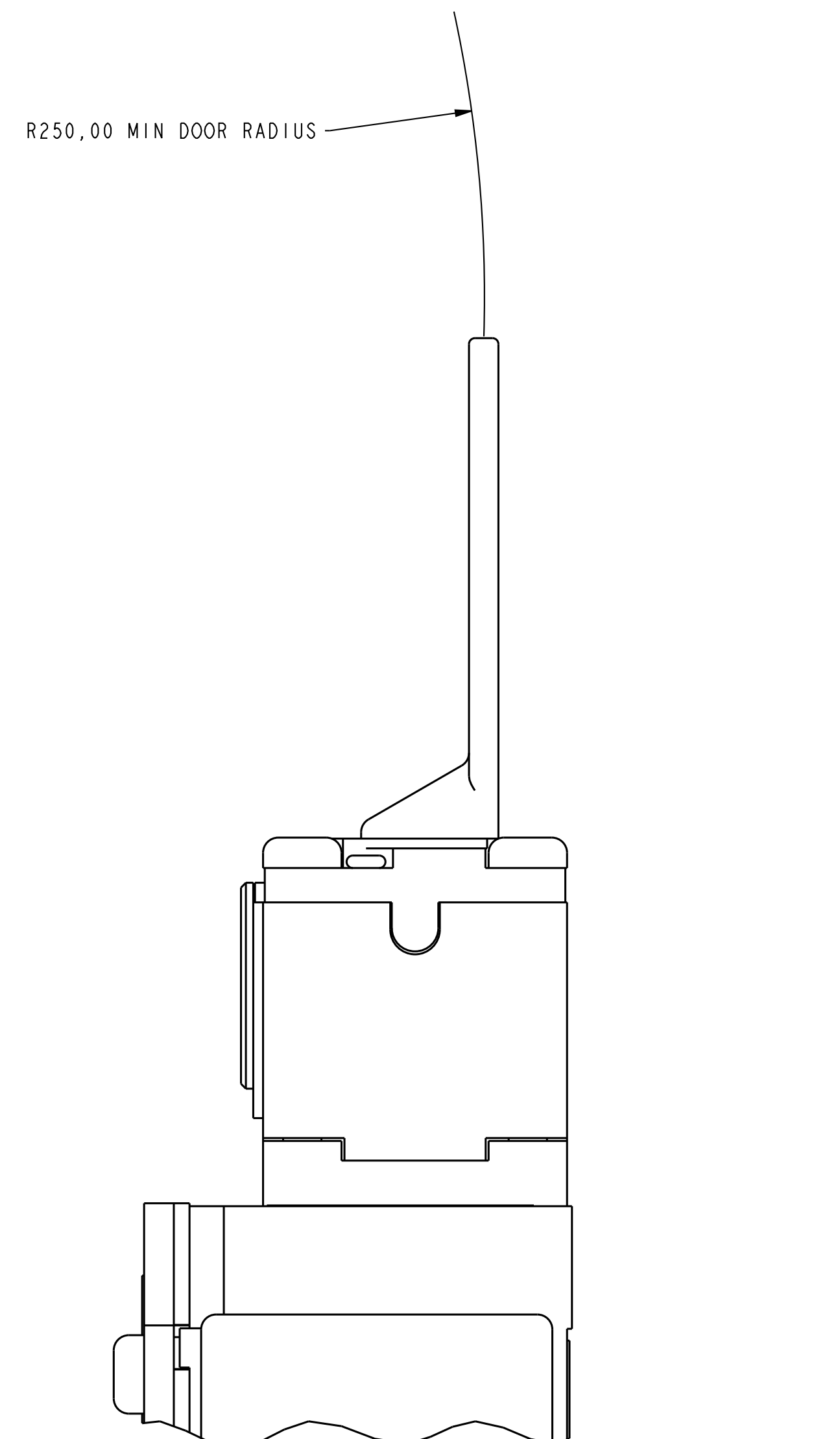
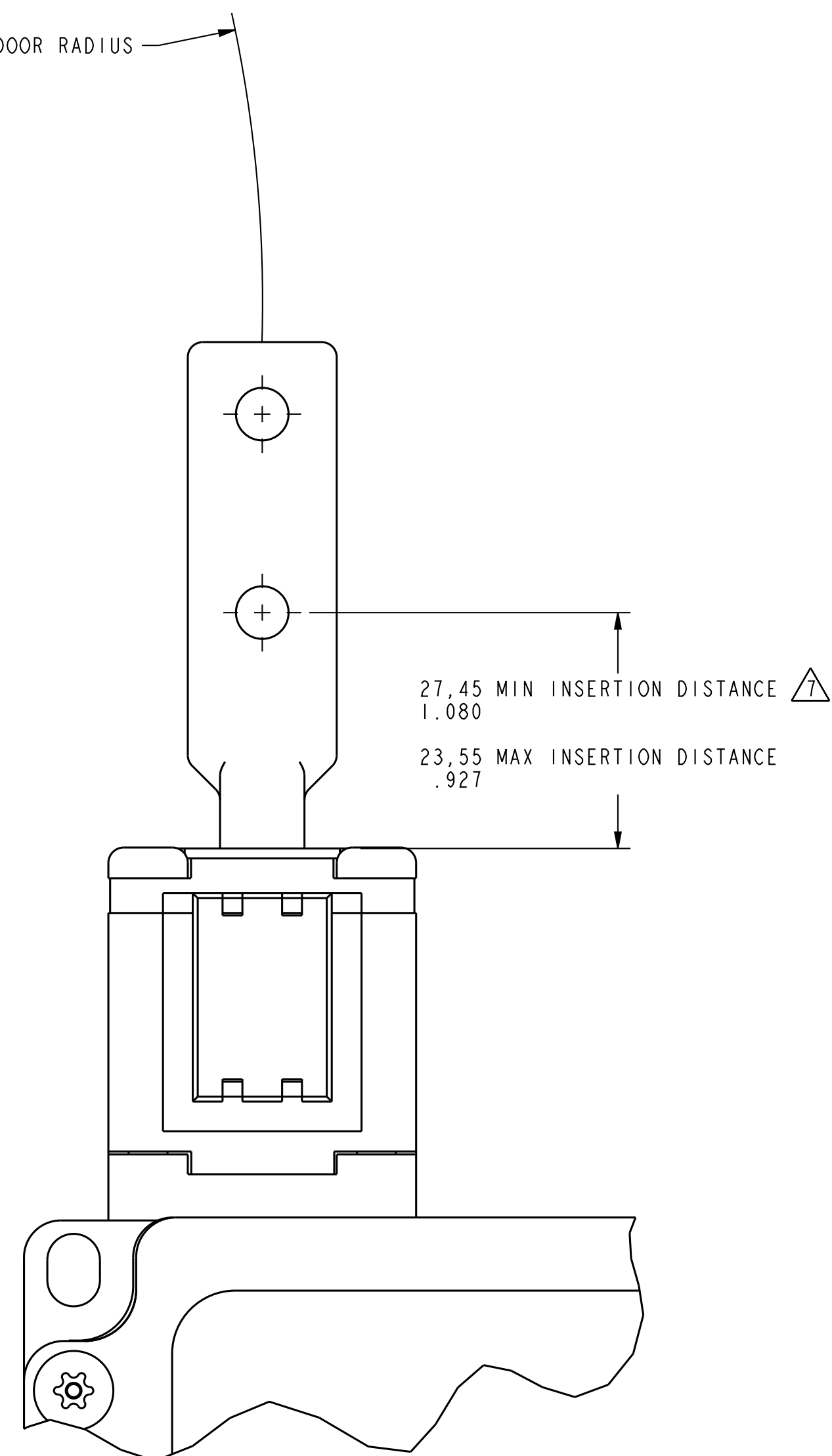
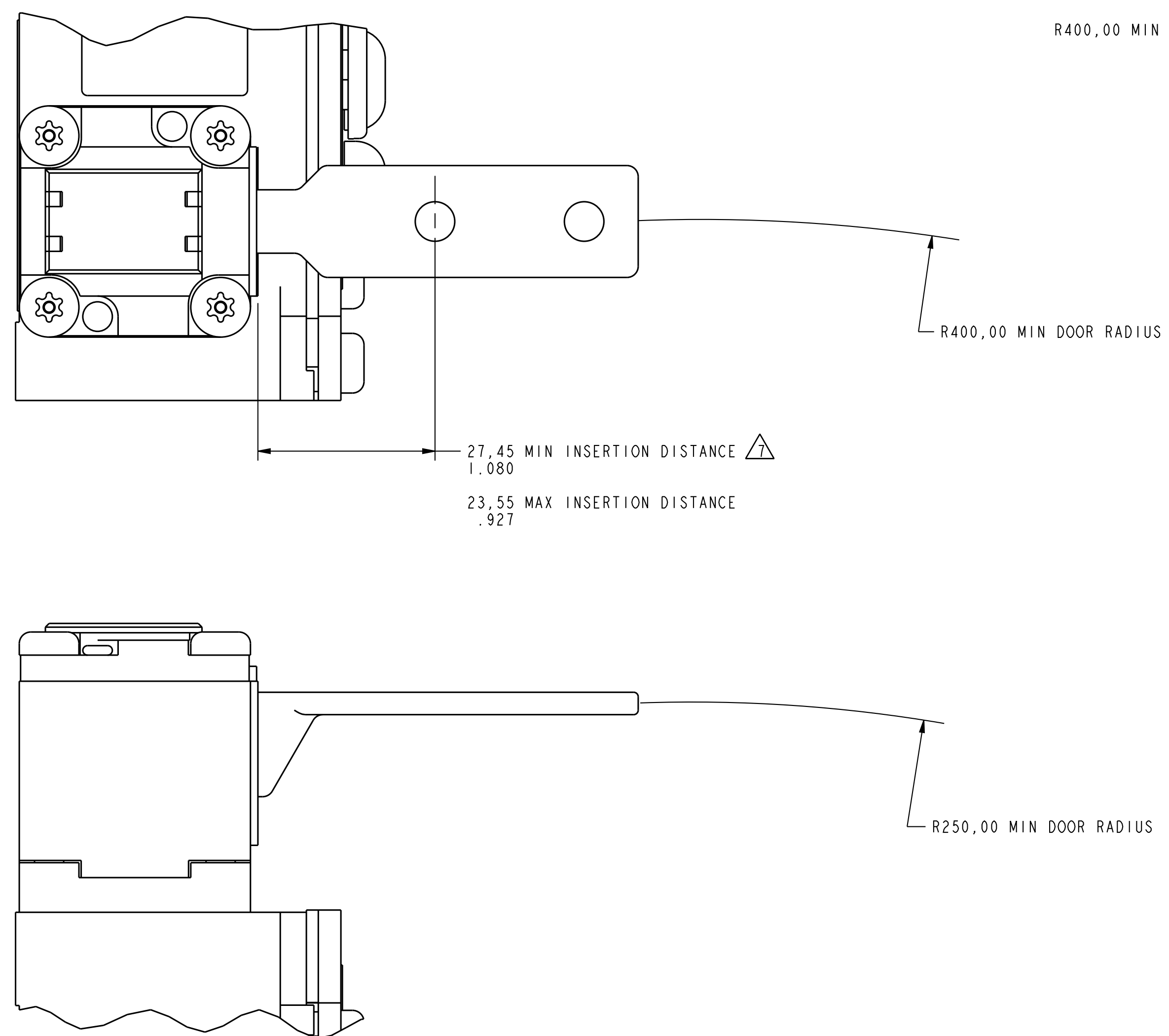
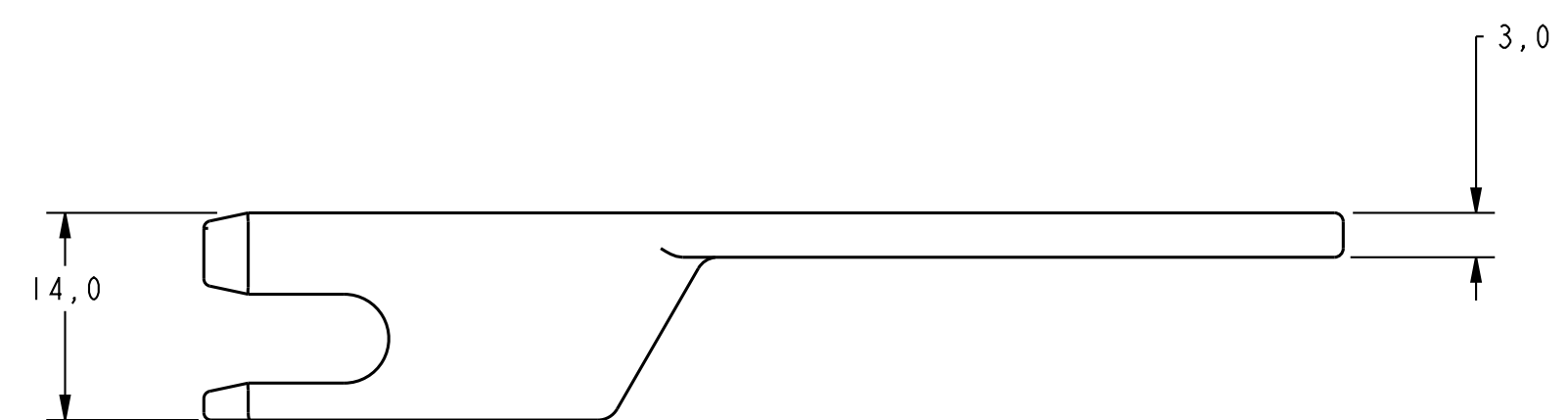
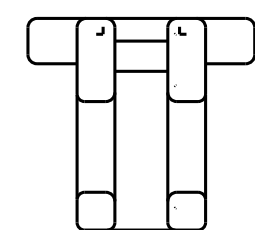
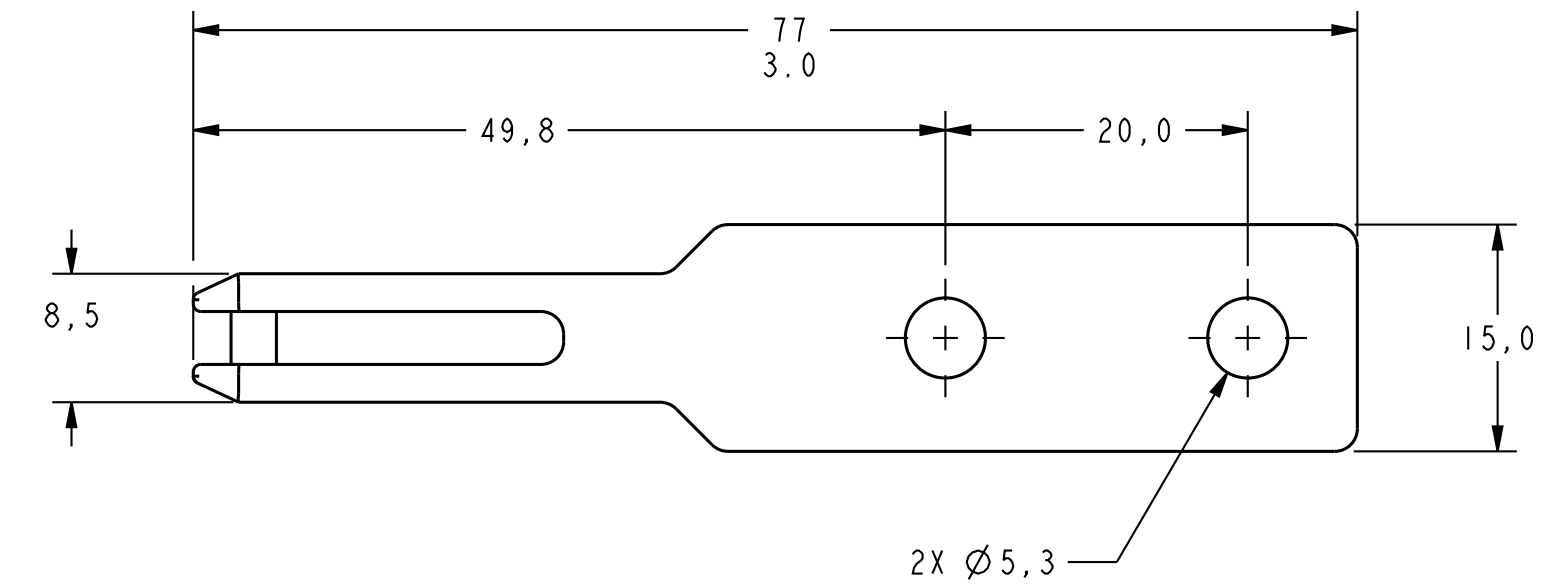
HEAD CODE P

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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	

GK SERIES CHART 4

KEY CODE 6

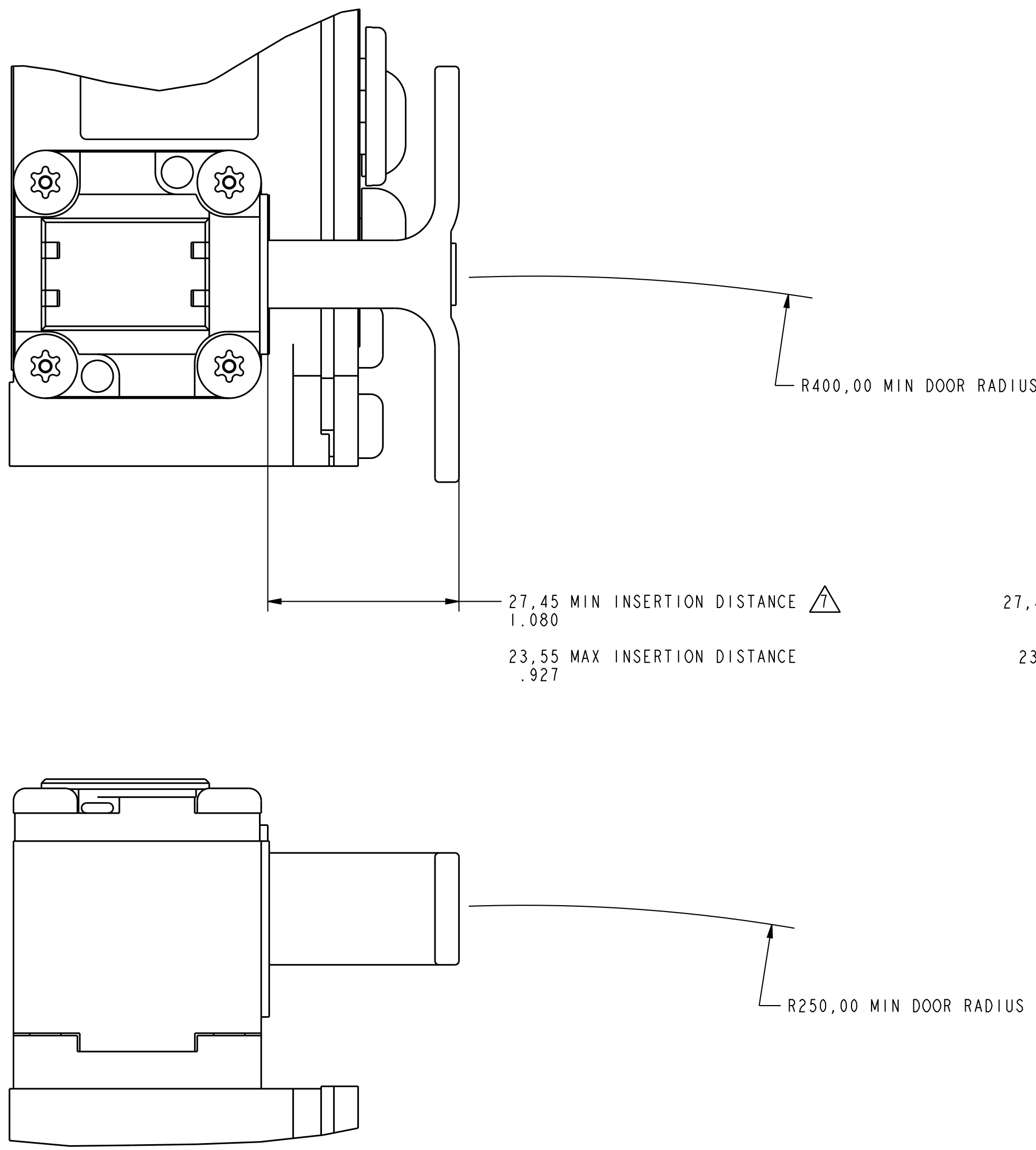


FRONT KEY ENTRY

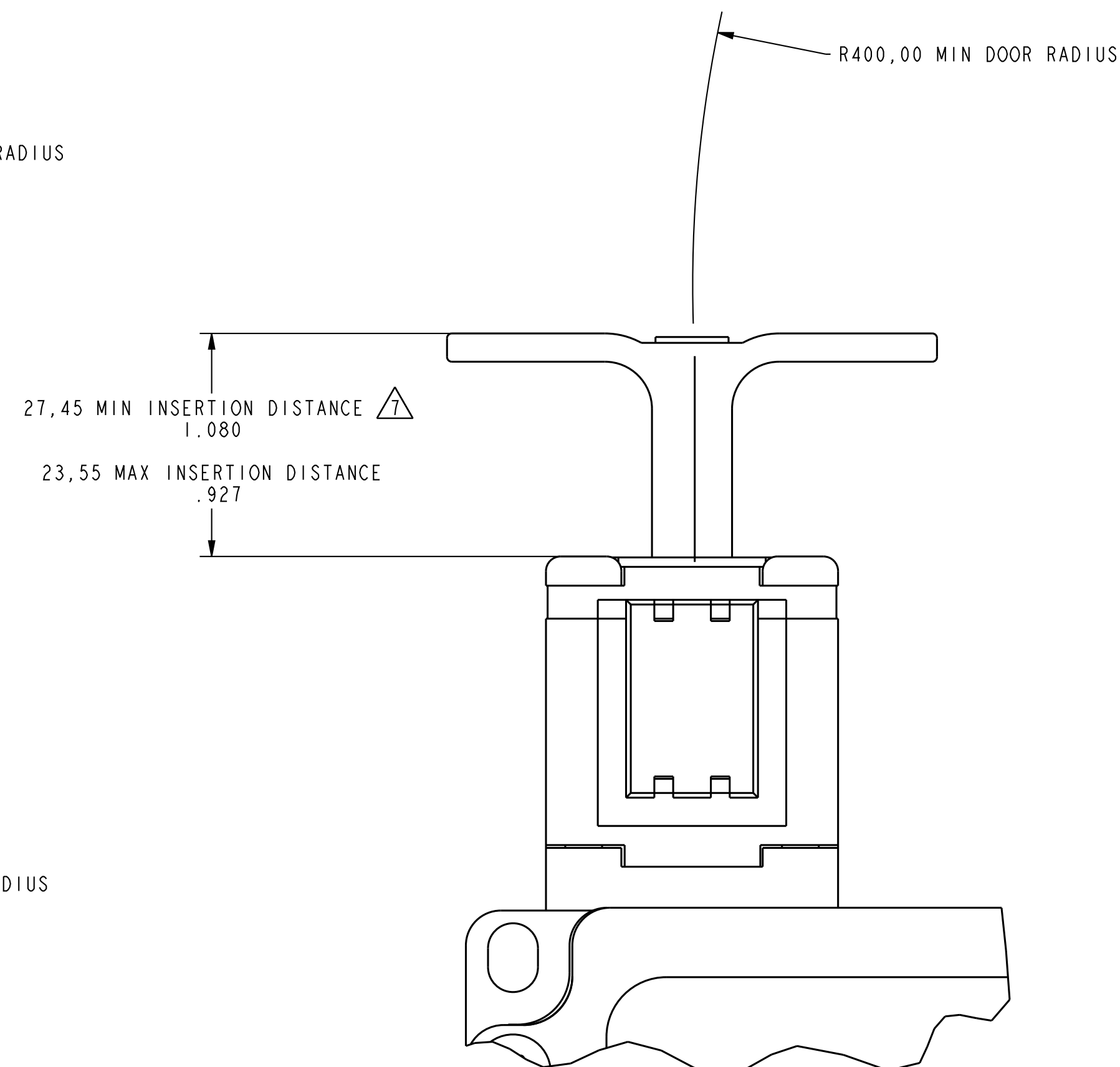
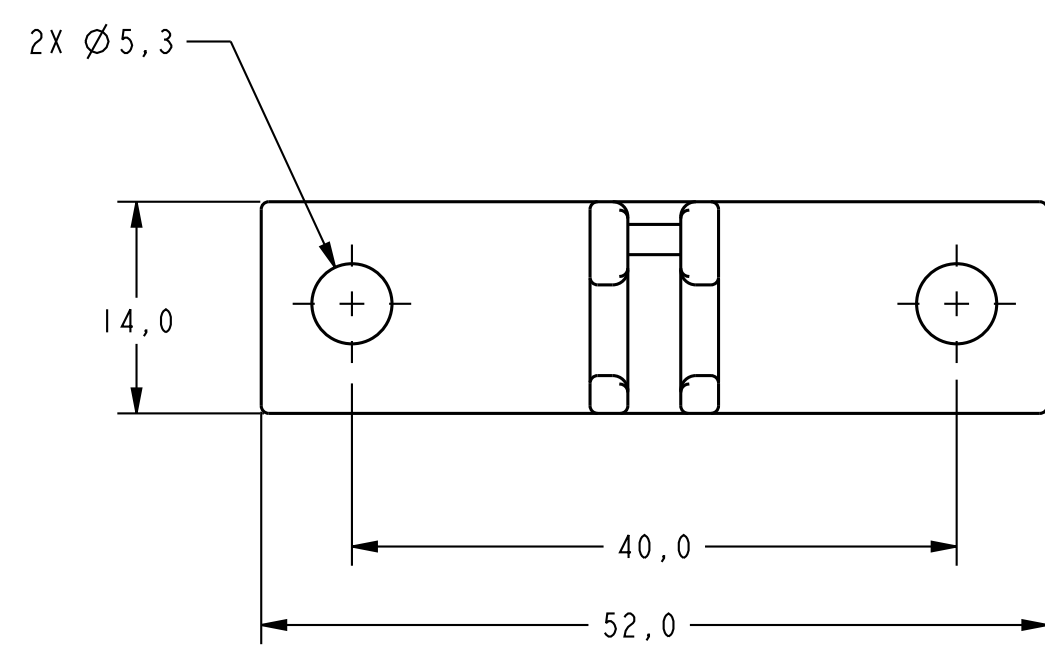
TOP KEY ENTRY

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DRW.	TOL.	DRW.	TOL.																						
#	mm (in.)	#	mm (in.)																						
FED. MFG. CODE 91929		CATALOG LISTING		<table><tr><td>NO PLACES</td><td>2</td><td>1/2 .04</td><td>1.2</td><td>0.81-0.3</td></tr><tr><td>TWO PLACES</td><td>2.1</td><td>0.41-0.04</td><td>1.2</td><td>0.30-0.103</td></tr><tr><td>THREE PLACES</td><td>2.11</td><td>0.157-.006</td><td>1.102</td><td>0.157-.005</td></tr><tr><td>ANGLES</td><td></td><td></td><td></td><td></td></tr></table>		NO PLACES	2	1/2 .04	1.2	0.81-0.3	TWO PLACES	2.1	0.41-0.04	1.2	0.30-0.103	THREE PLACES	2.11	0.157-.006	1.102	0.157-.005	ANGLES				
NO PLACES	2	1/2 .04	1.2	0.81-0.3																					
TWO PLACES	2.1	0.41-0.04	1.2	0.30-0.103																					
THREE PLACES	2.11	0.157-.006	1.102	0.157-.005																					
ANGLES																									
MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK		GK SERIES CHART 4																					
				<table><tr><td>SI METRIC</td><td>☒</td><td>US CUSTOMARY</td><td>☐</td></tr><tr><td>DESIGN UNITS</td><td></td><td></td><td></td></tr><tr><td colspan="4">WEIGHT 1.5 KG / 3.3 LB</td></tr></table>		SI METRIC	☒	US CUSTOMARY	☐	DESIGN UNITS				WEIGHT 1.5 KG / 3.3 LB											
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DESIGN UNITS																									
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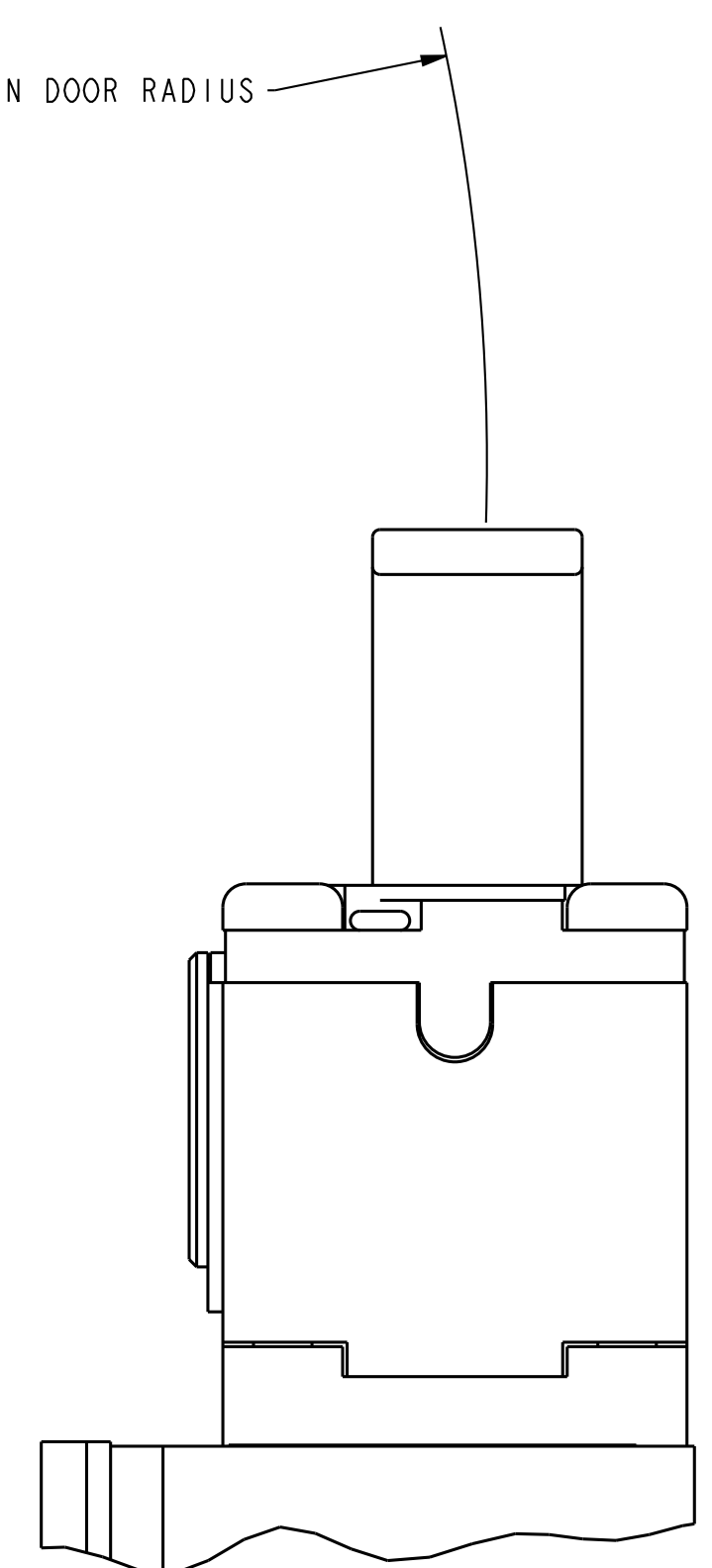
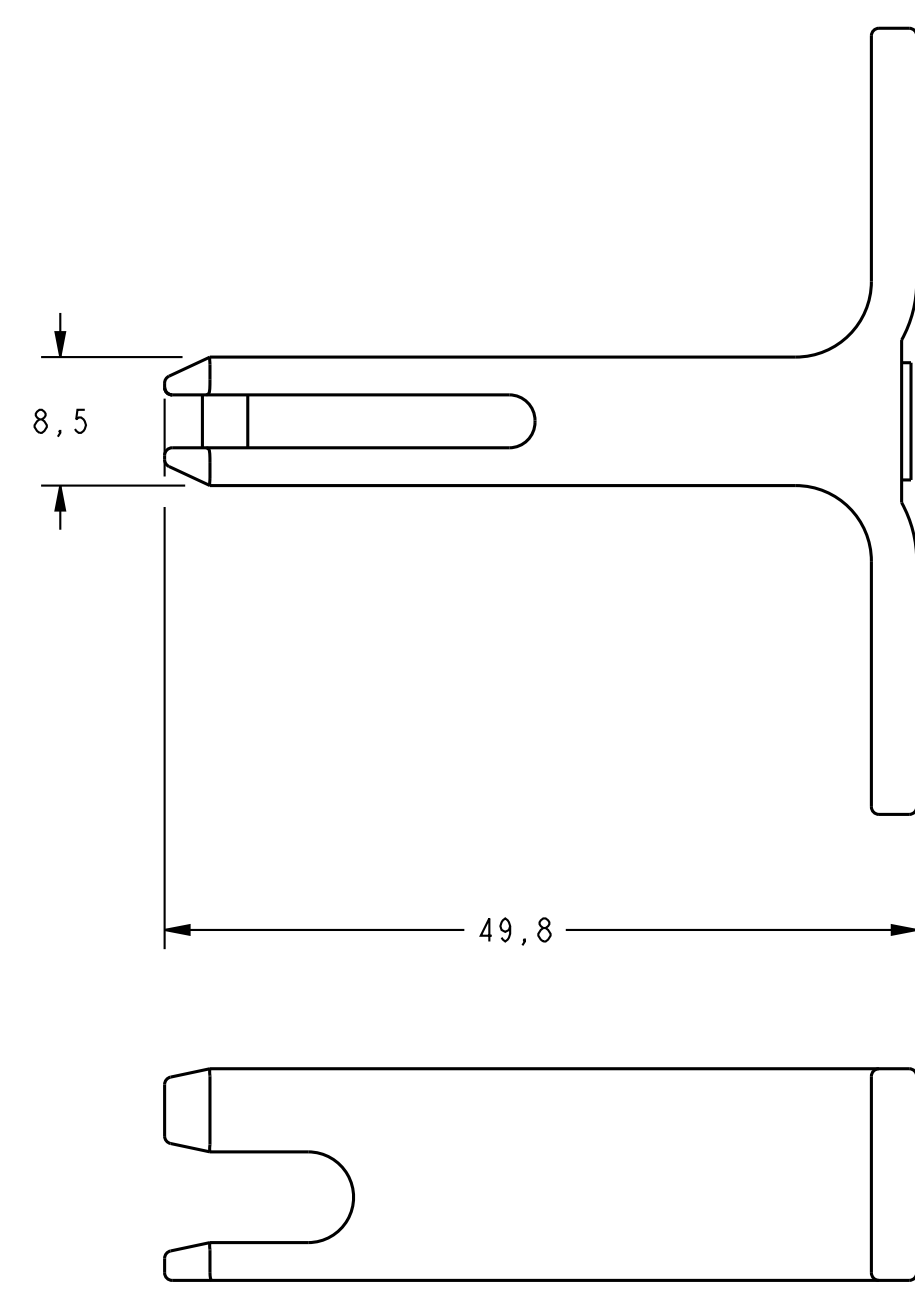
KEY CODE 7



FRONT KEY ENTRY



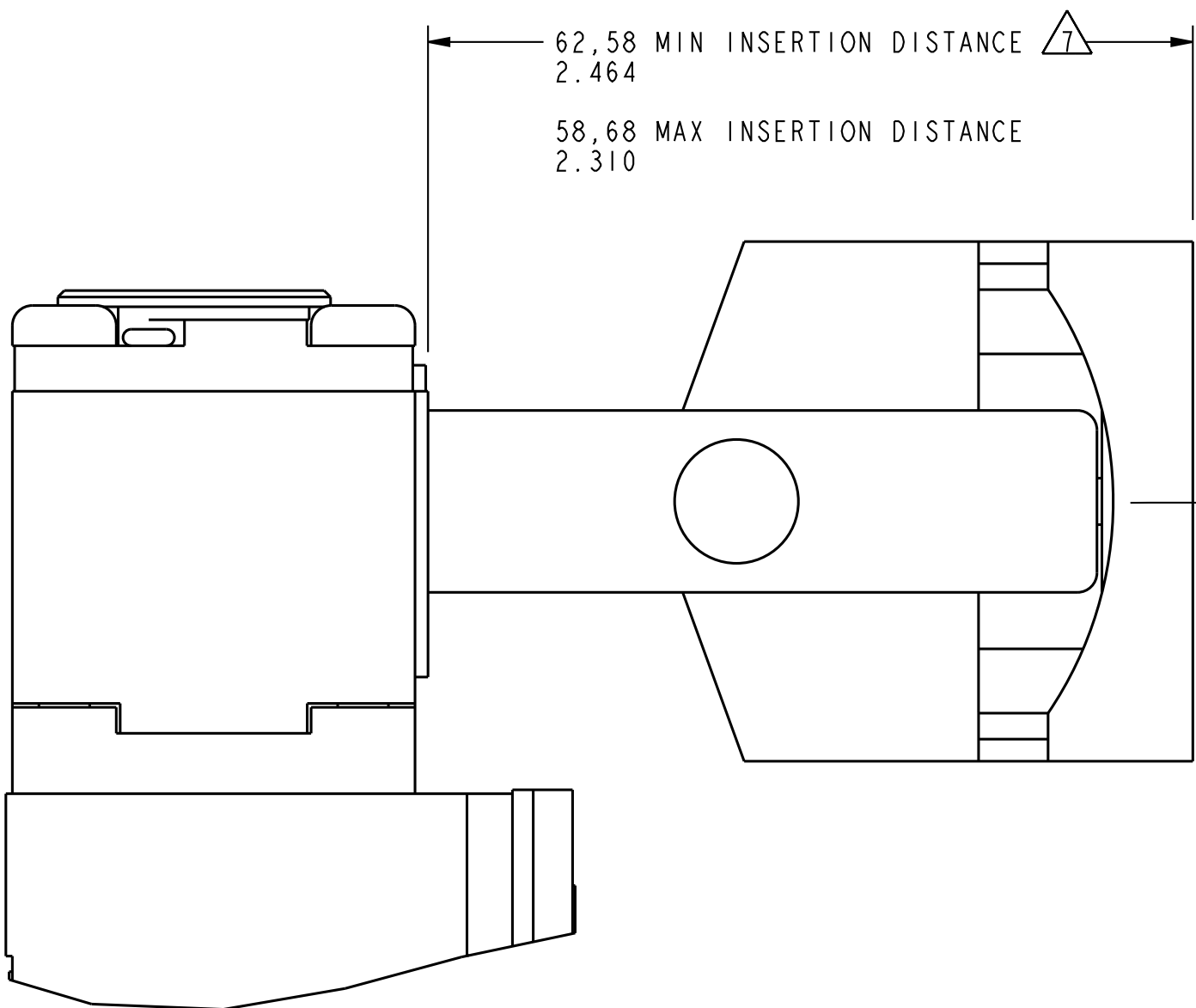
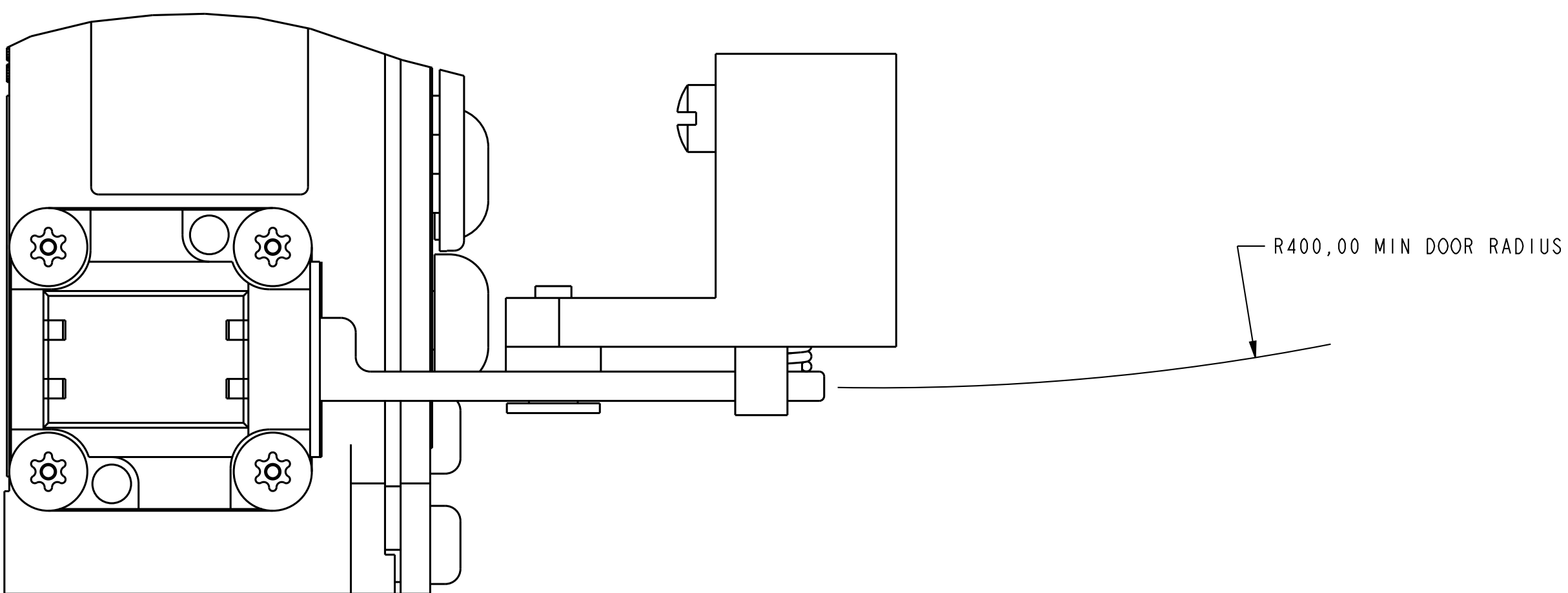
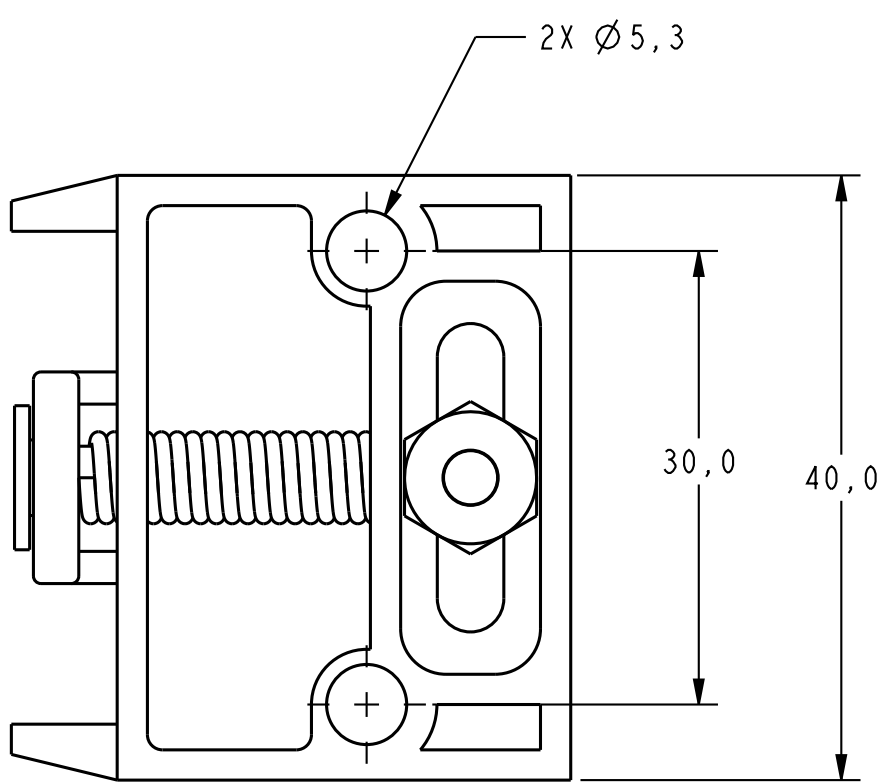
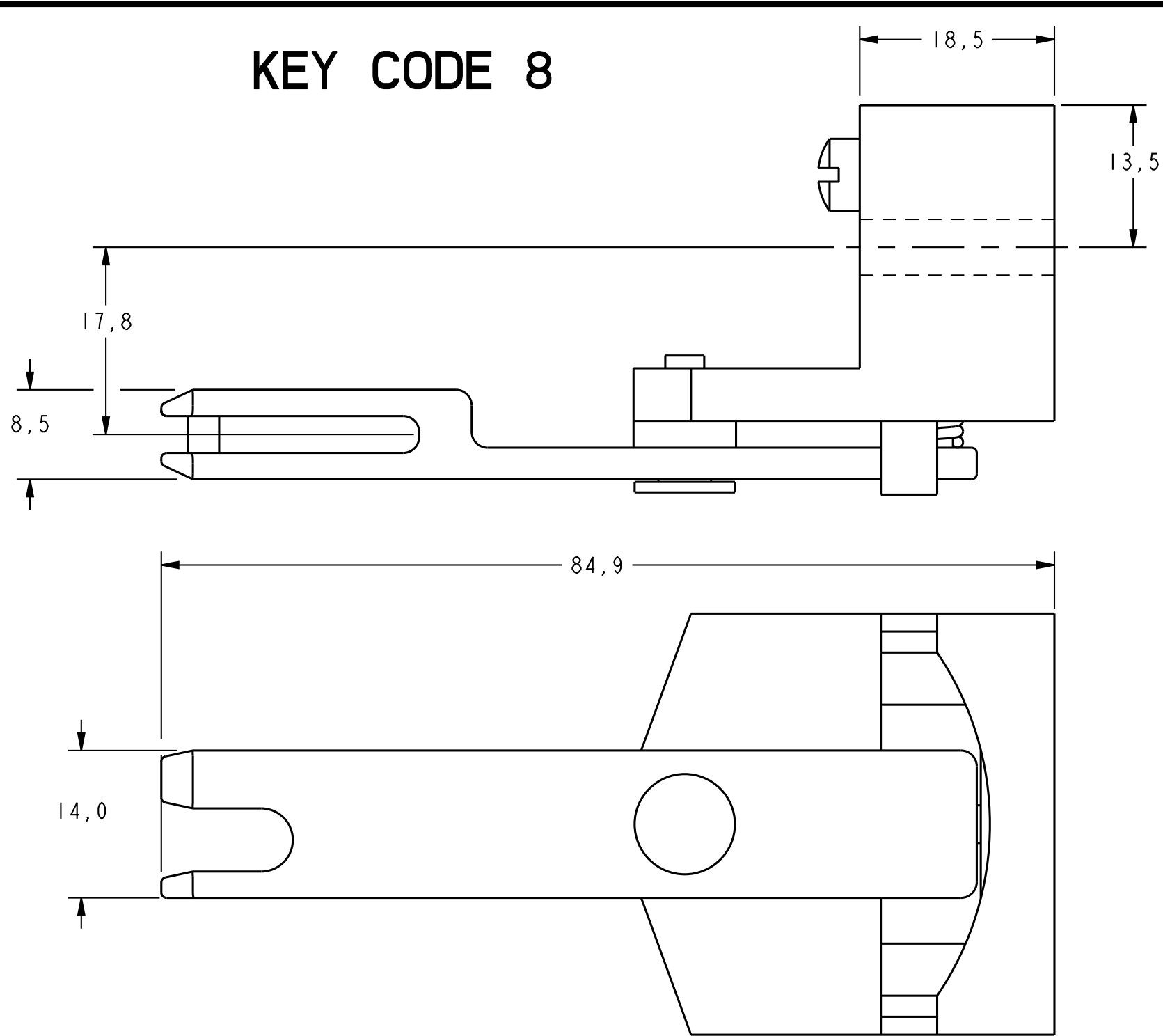
TOP KEY ENTRY



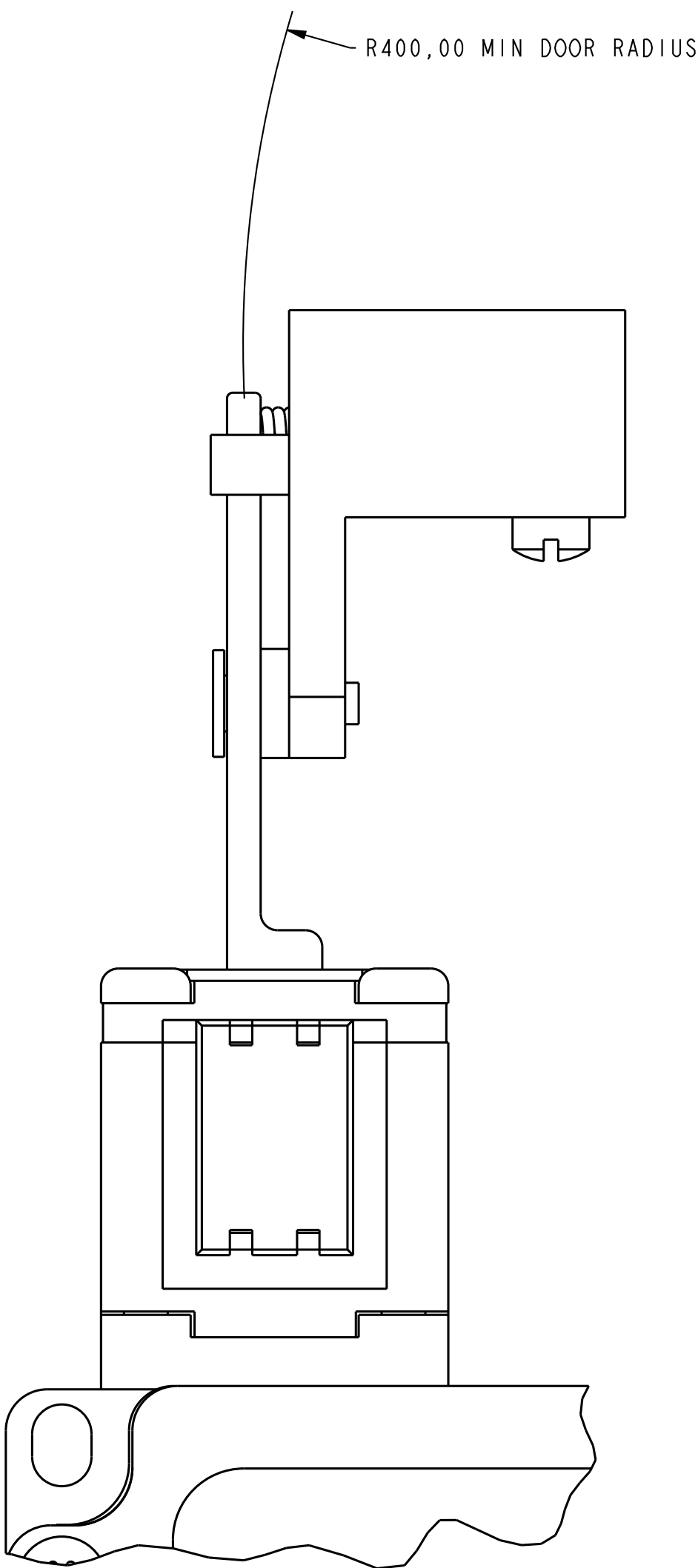
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MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK		GK SERIES CHART 4	
DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY ☐		WEIGHT 1,5 KG / 3,3 LB			

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	ONE PLACE	TWO PLACES	THREE PLACES
MM	IN	MM	IN
1/16	1/32	1/64	1/128
0.0156	0.0078	0.0039	0.0019

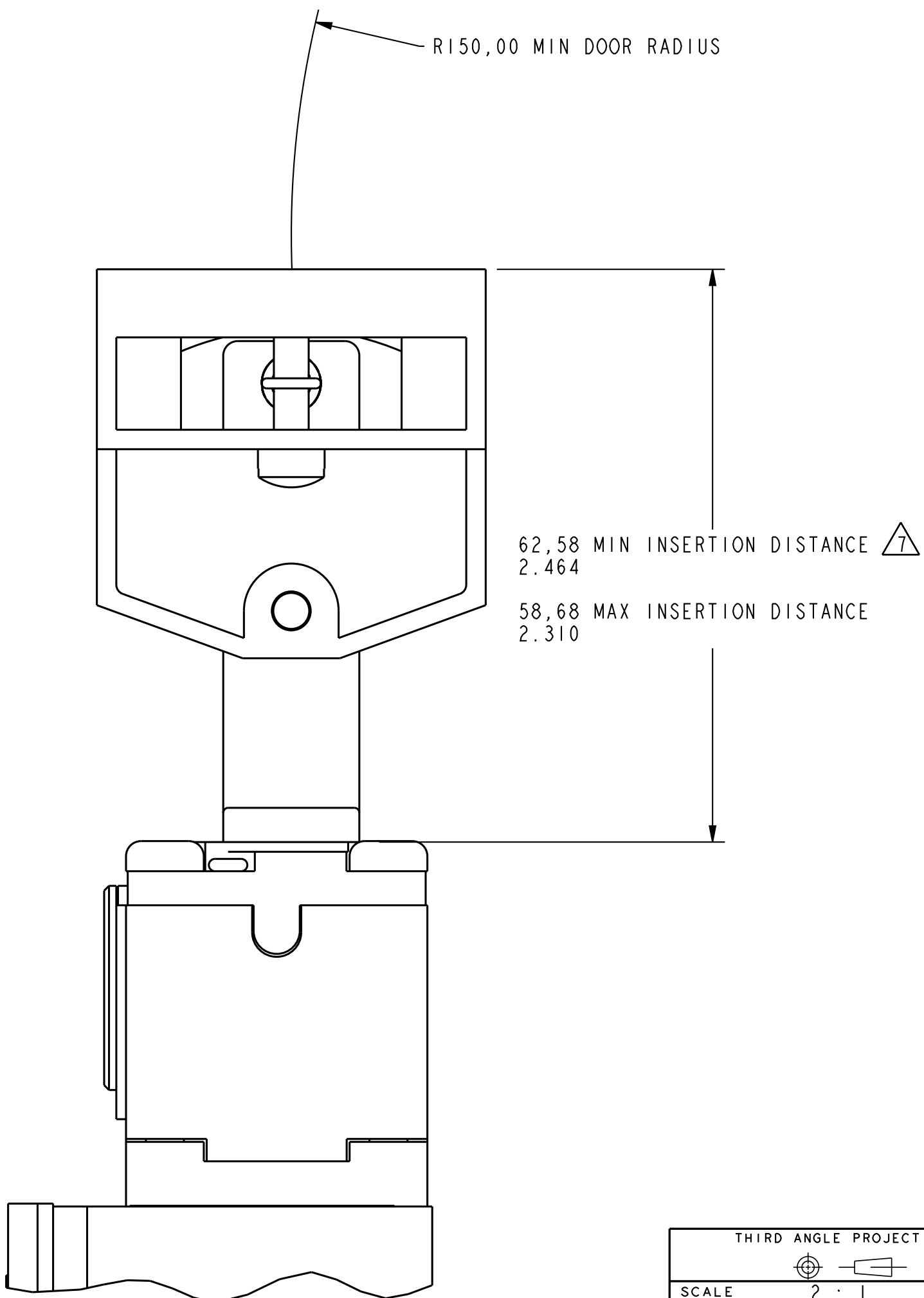
KEY CODE 8



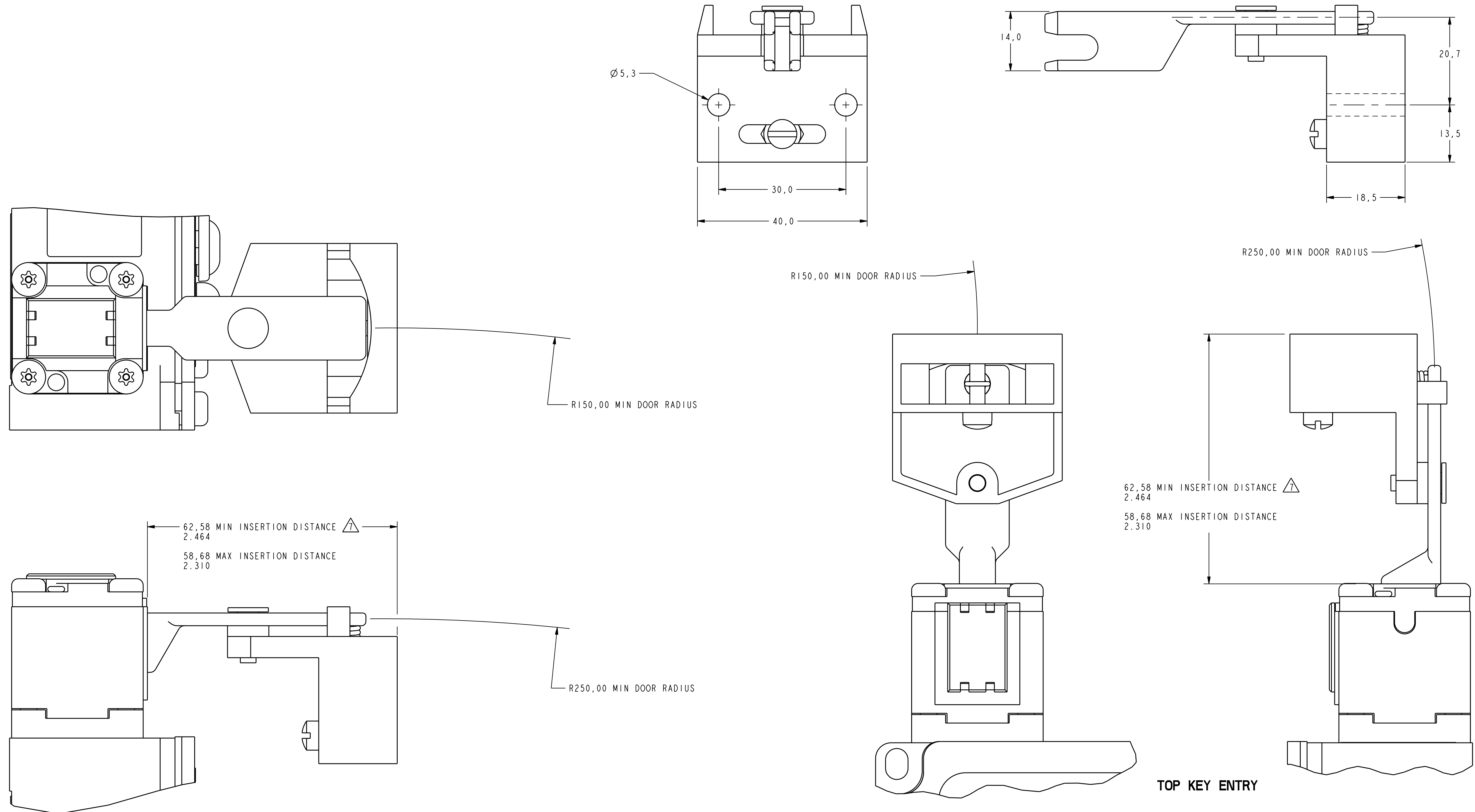
FRONT KEY ENTRY

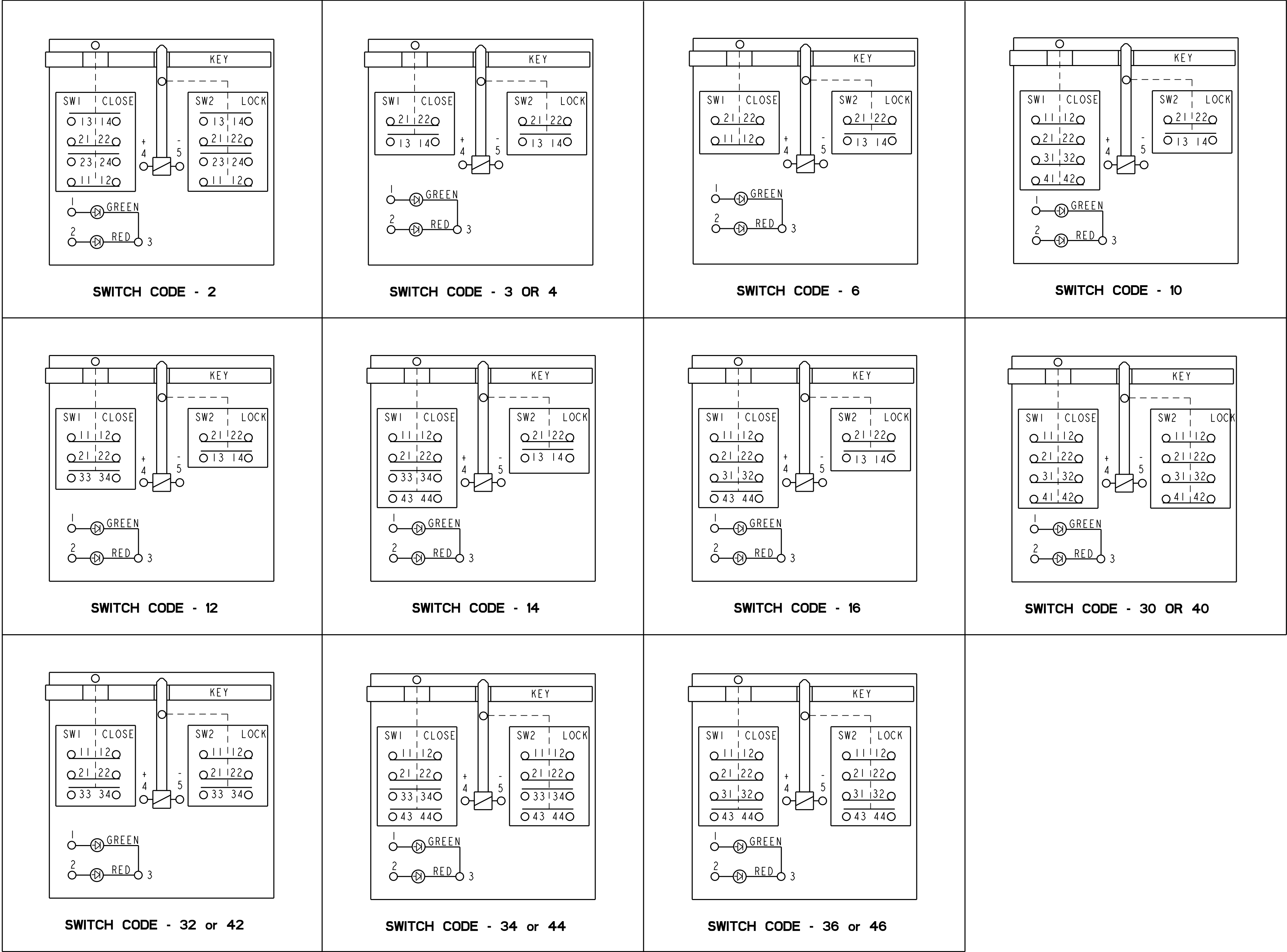


TOP KEY ENTRY



KEY CODE 9





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

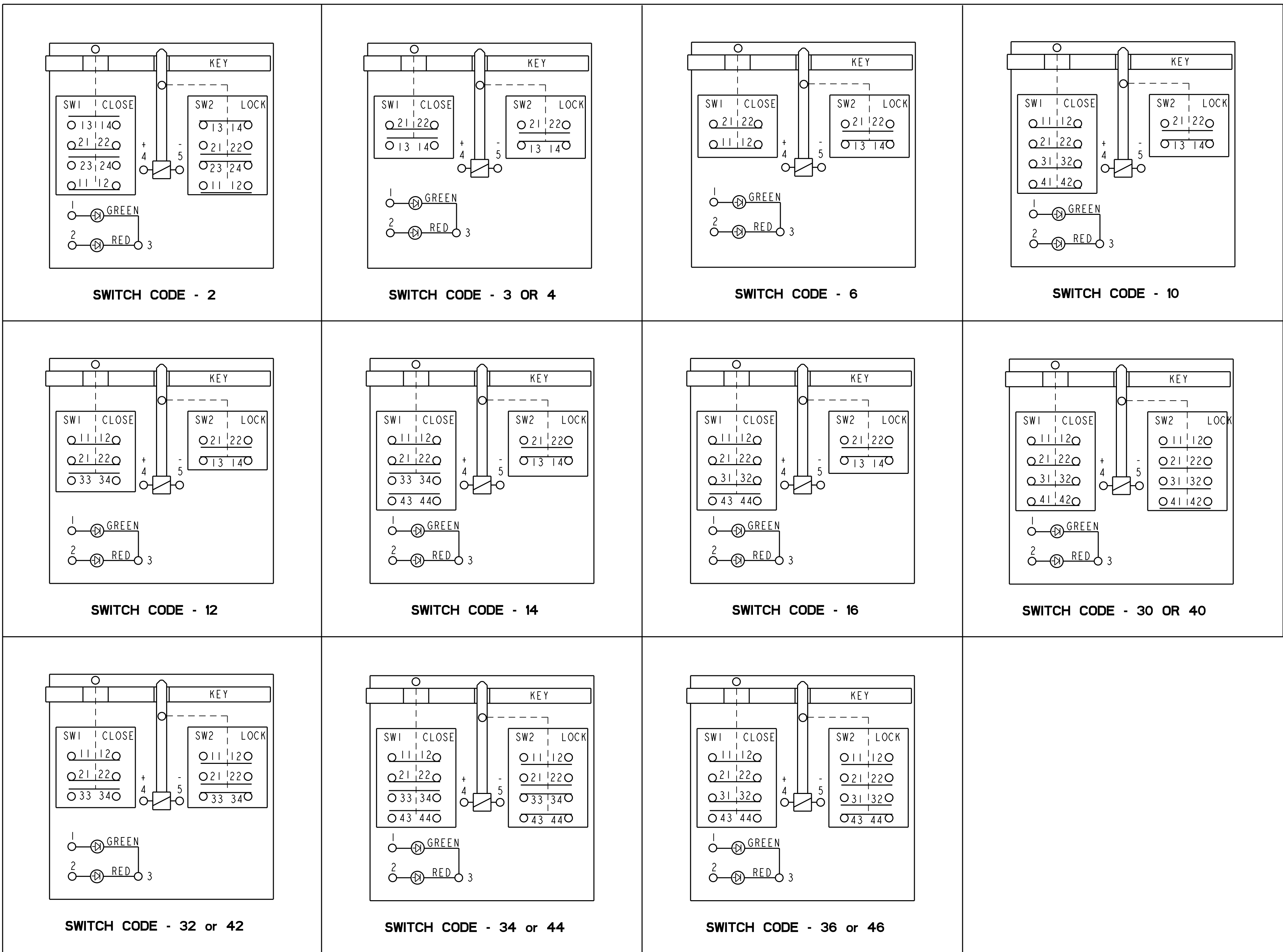
PTC/CAD 3D
DRAWN
MAM
LOC 198
CHECK
CMH
12MAY99
CHECK
PRS
04FEB09
CHECK
CMH
10NOV11
RELEASE NO. PR-23758
REPLACES
-

REVISIONS
M 0047583
04FEB09
P 0065737
R 0083578

5254
ISSUE

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.		CATALOG LISTING	
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	

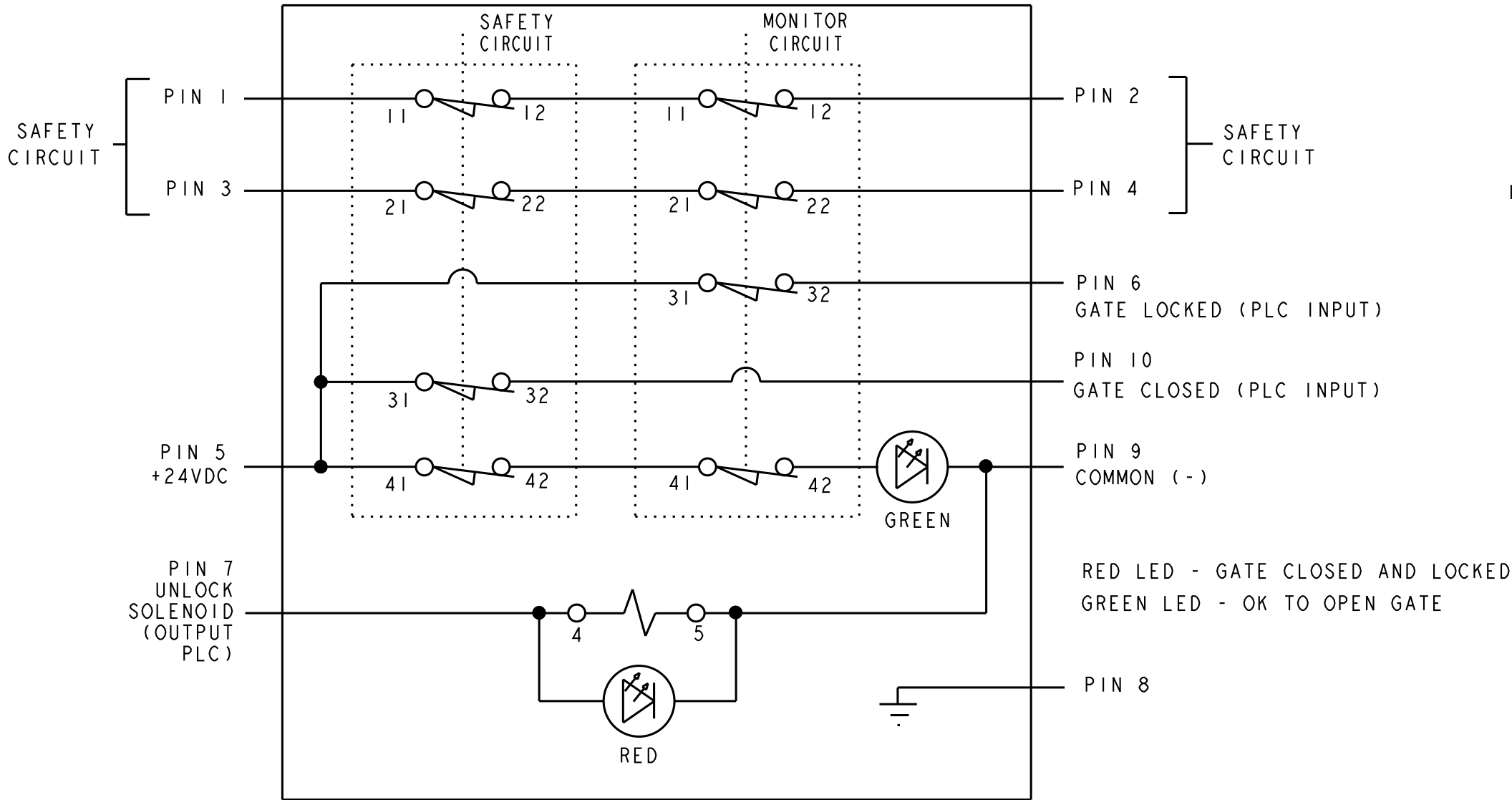
THIRD ANGLE PROJECTION			
SCALE NTS			
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1			
NO PLACES	ONE PLACE	TWO PLACES	THREE PLACES
MM	IN	MM	IN
±.04	±.004	±.01	±.001
0.01/0.06	0.01/0.06	0.01/0.06	0.01/0.06
±.04	±.004	±.01	±.001



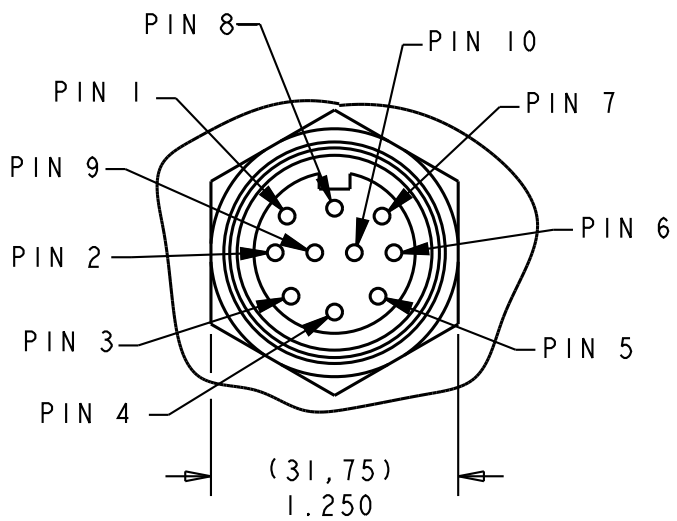
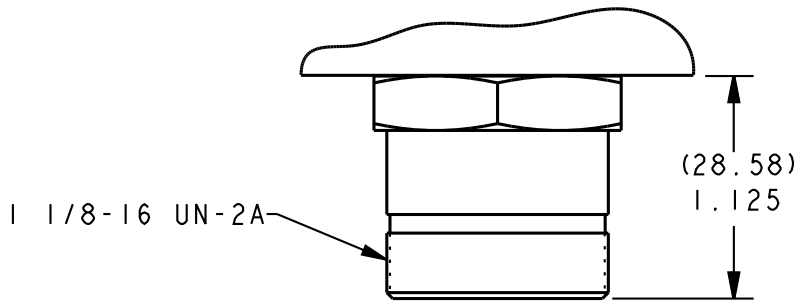
BODY / INDICATOR CODES - L OR R
 TYPE / OVER-RIDE CODES - S OR T
 DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED



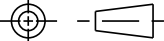
MODIFICATION CODE: F05



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. in	TOL mm / in
NO PLACES	X	1 / 04	X.X	0.8 / 03
ONE PLACE	X.X	0.1 / 016	X.XX	0.38 / 015
TWO PLACES	X.XX	0.15 / 008	X.XXX	0.13 / 005
THREE PLACES				
ANGLES				
SI METRIC		US CUSTOMARY		
DESIGN UNITS				
WEIGHT 2,3 kg / 5 LB MAX				

