

DUAL ENTRY SOLENOID KEY OPERATED SAFETY INTERLOCK NOMENCLATURE

GK

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		
		F	PG 13.5 - BUNA-N SEALS	14	SLOW ACTING 2 NC - 2 NO BBM										
		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
- 3 10-PIN CONNECTOR, BRAD HARRISON PART NO.3RI006AZIF010 OR EQUIVALENT
- 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					

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FED. MFG. CODE 91929

Division

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

THIRD ANGLE PROJECTION

SCALE NTS

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS; CONVERSIONS ARE ONLY FOR REFERENCE, UNLESS NOTED. TOLERANCES ARE 1

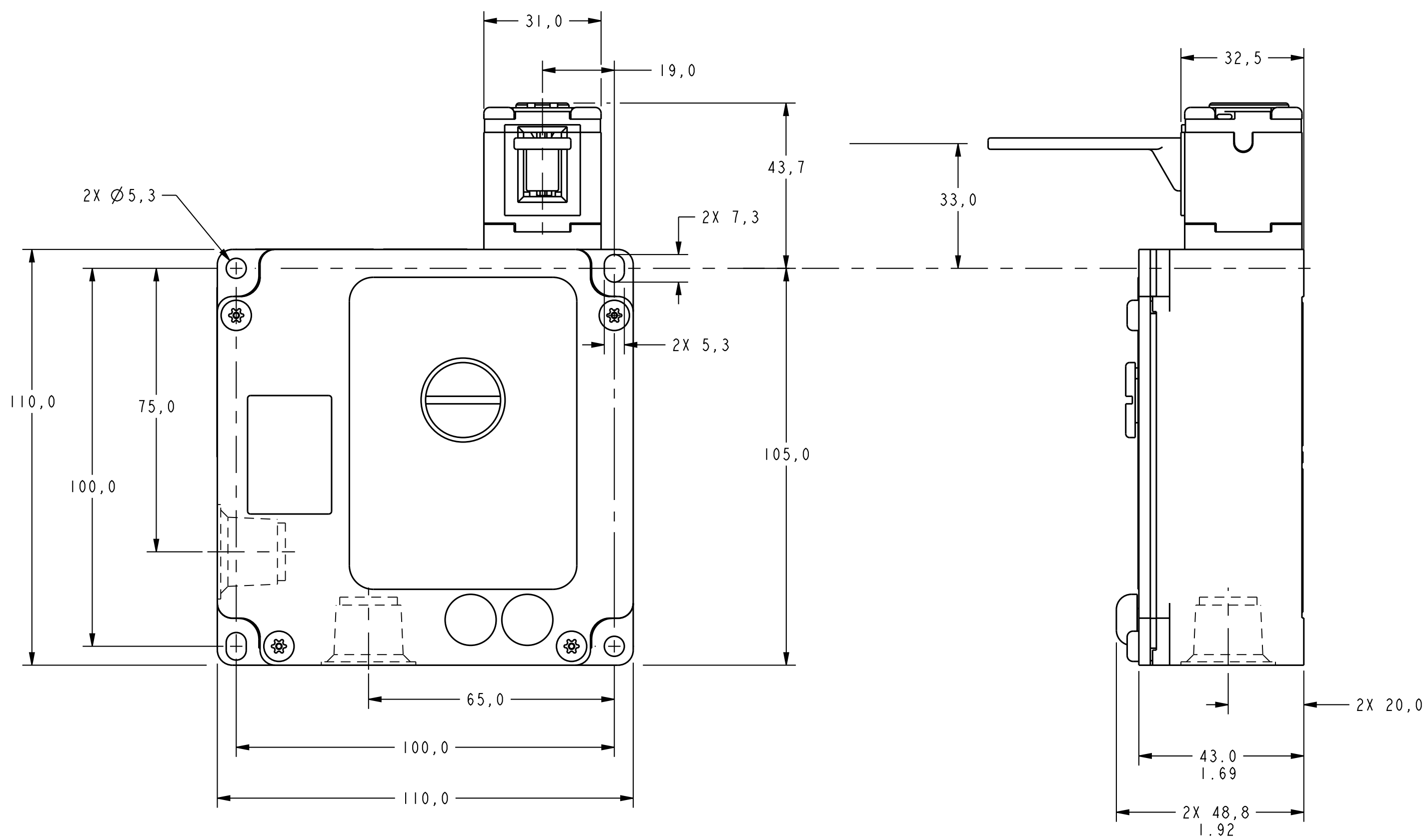
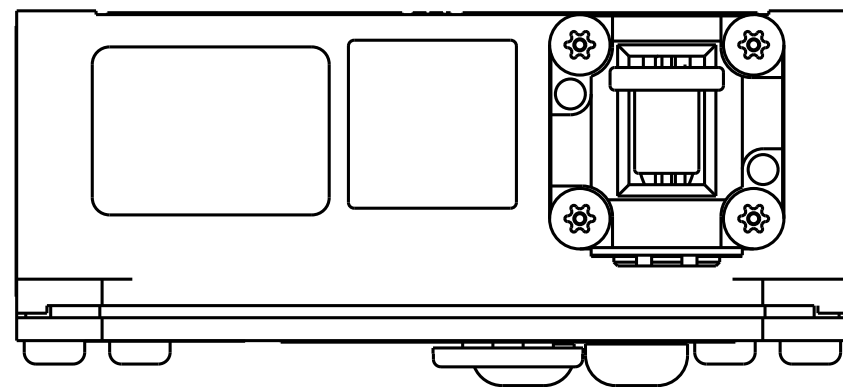
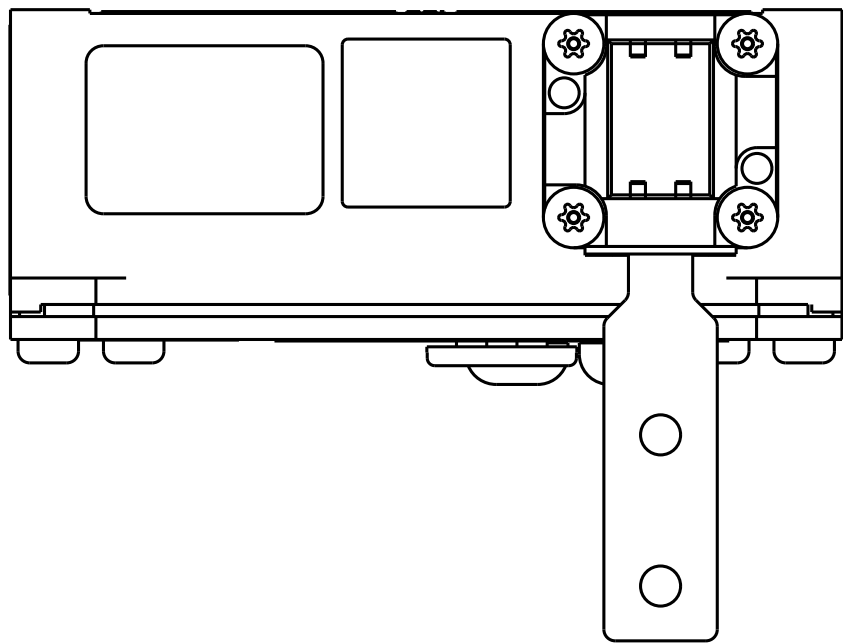
NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES

DESIGN UNITS

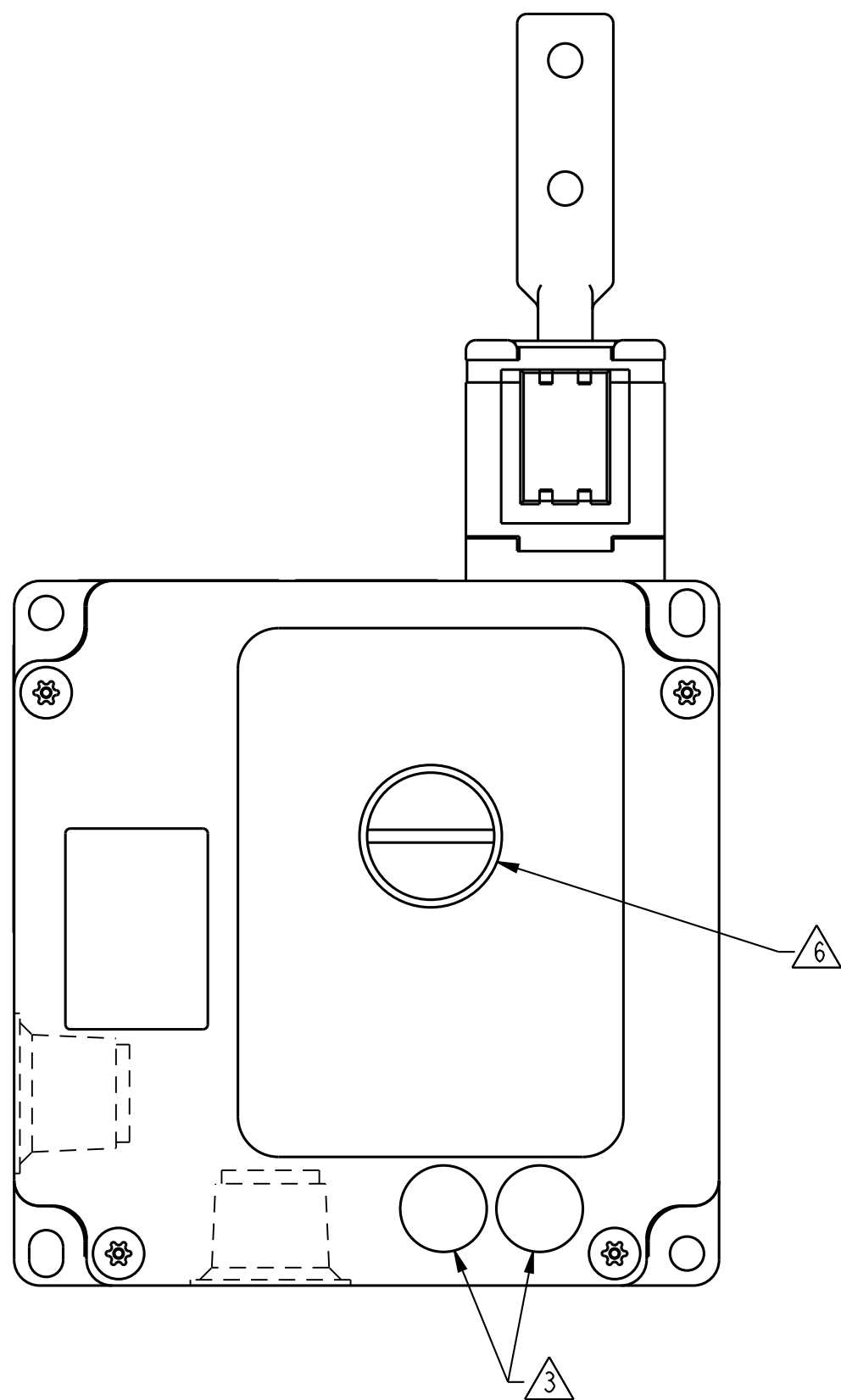
WEIGHT 1,5 kg / 3.3 LB

SI METRIC

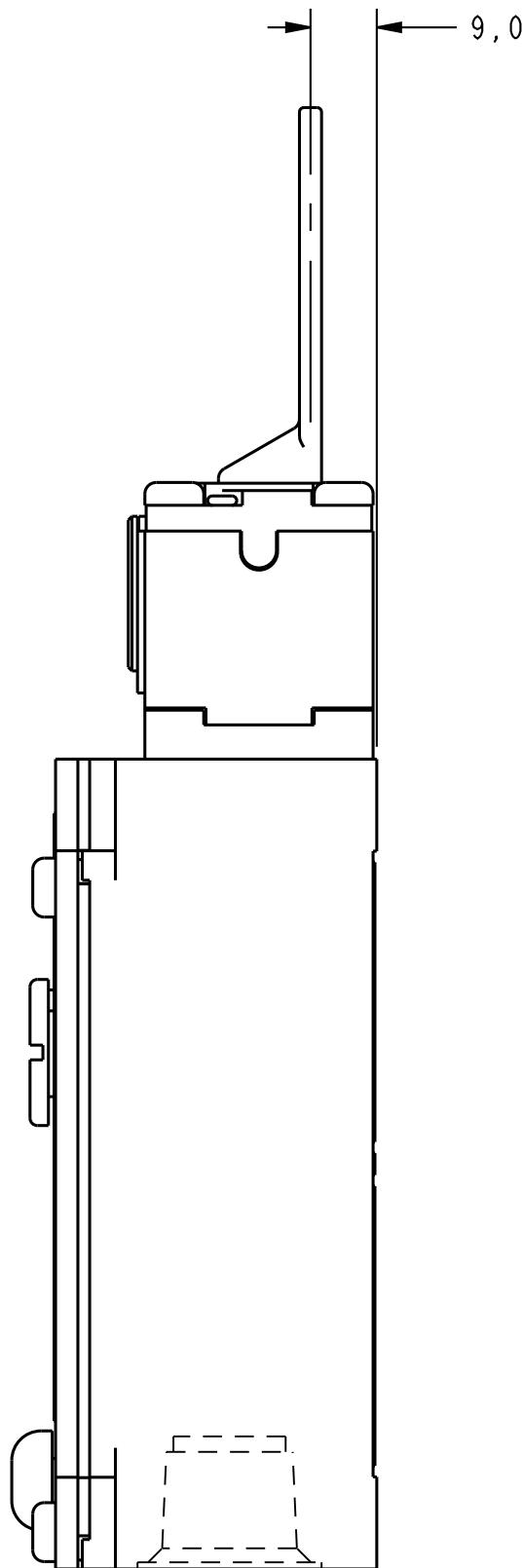
US CUSTOMARY



FRONT KEY ENTRY



TOP KEY ENTRY

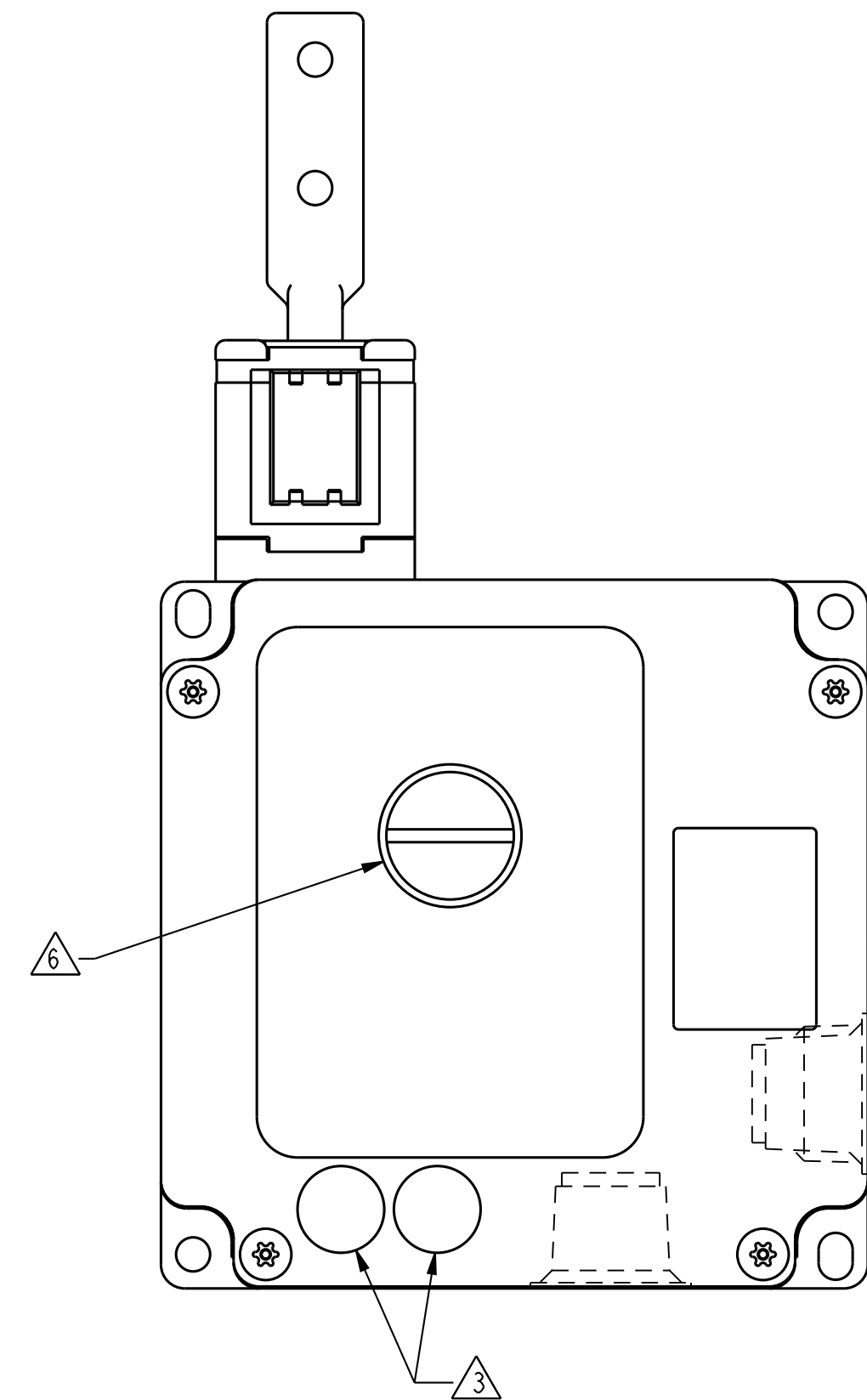
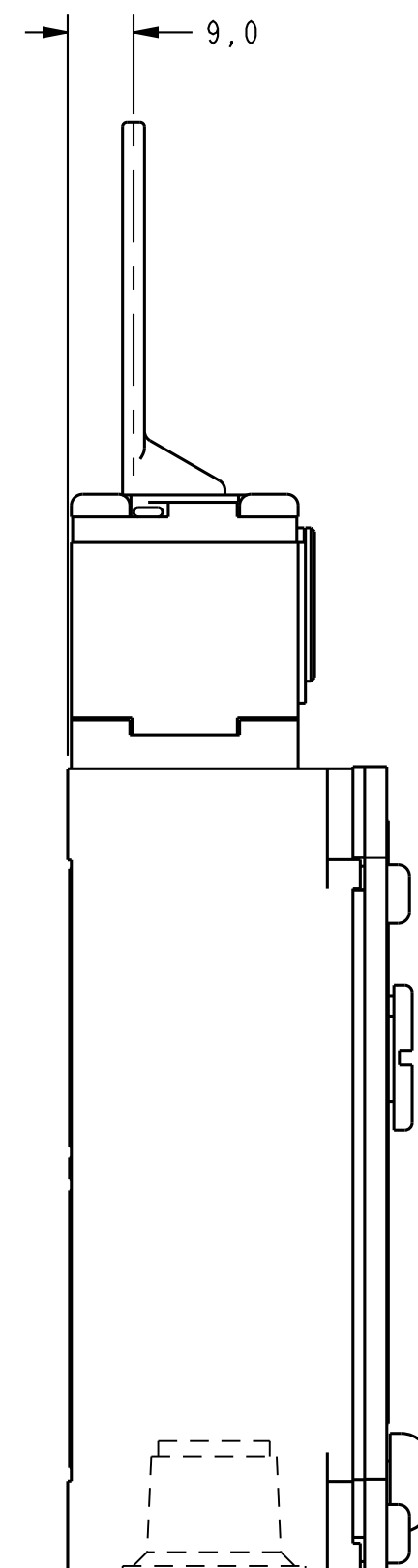
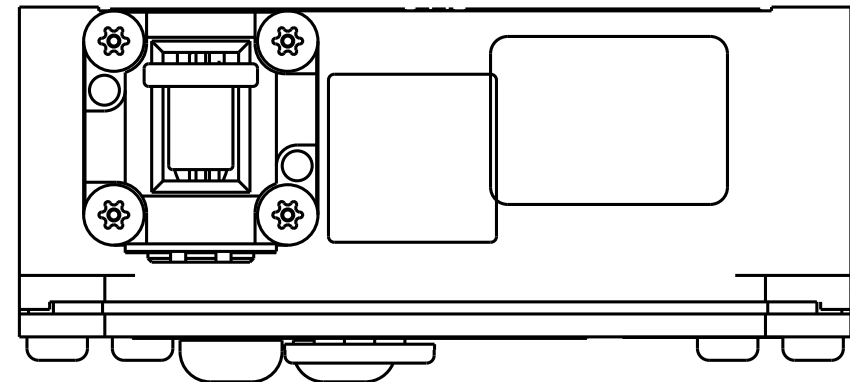


BODY / INDICATOR CODES R OR G

PTC/CAD		30	DRAWN		WAM		129SEP	98	CHECK	CMH	11MAY99	CHECK	PRS	04FEB09	CHECK	CMH	10NOV11	RELEASE NO. PR-23758	PAGE	2 OF 16	REPLACES		-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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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			



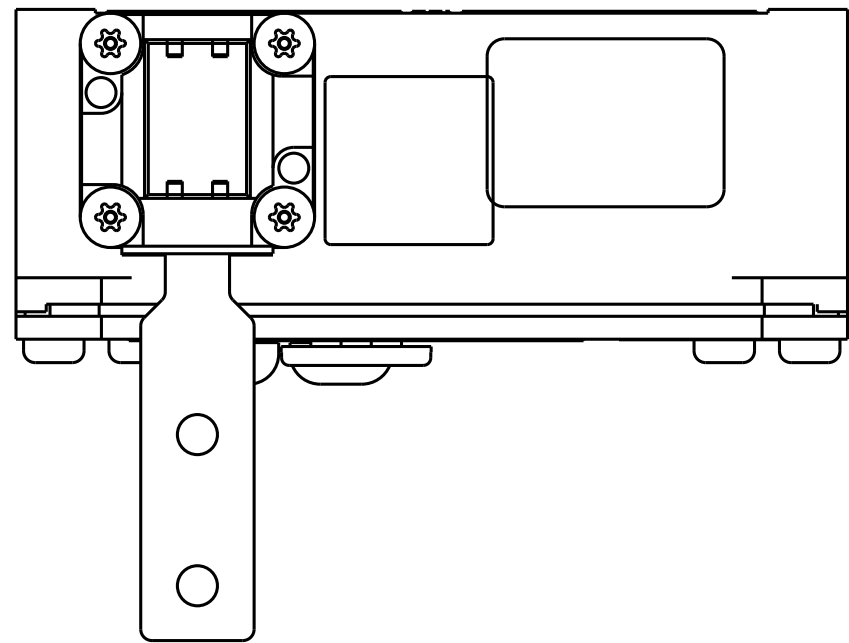
TOP KEY ENTRY

FRONT KEY ENTRY

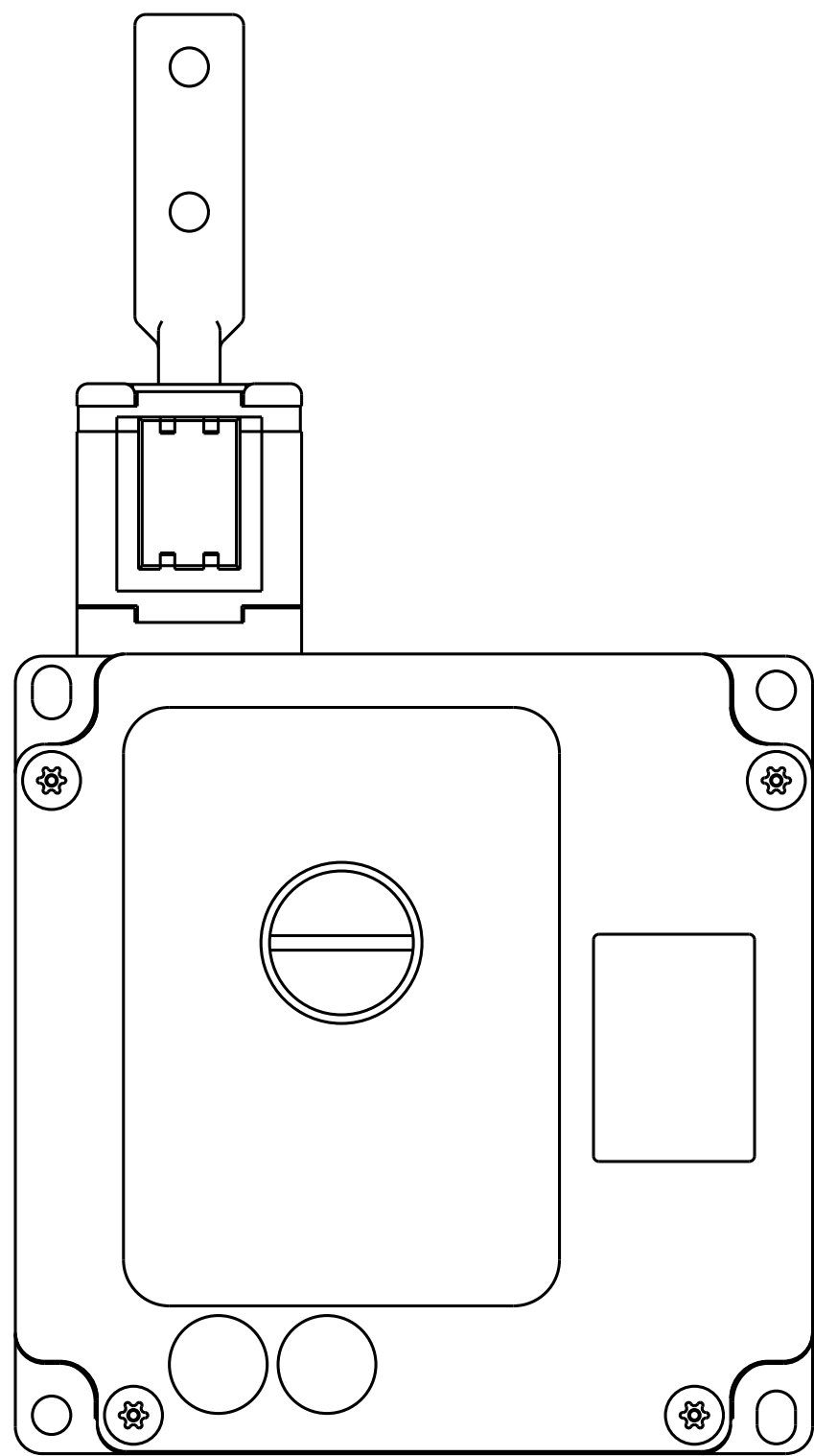
BODY / INDICATOR CODES L OR F

[illegible]

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DIM.	TOL.	DIM.	TOL.																								
mm / in	mm / in	mm / in	mm / in																								
NO PLACES	1 / 64	1.1	0.0013																								
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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																										
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MICRO SWITCH a Honeywell Division	SWITCH - DOOR INTERLOCK	GK SERIES CHART 4																									
		DESIGN UNITS ☒ ☐																									
		WEIGHT 1.5 kg / 3.3 lb																									

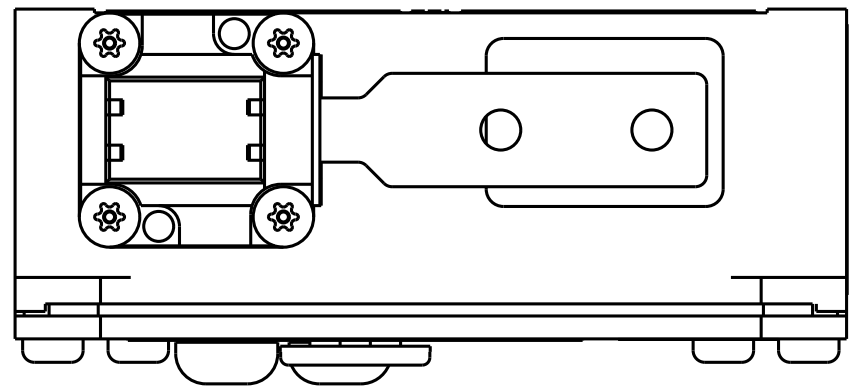
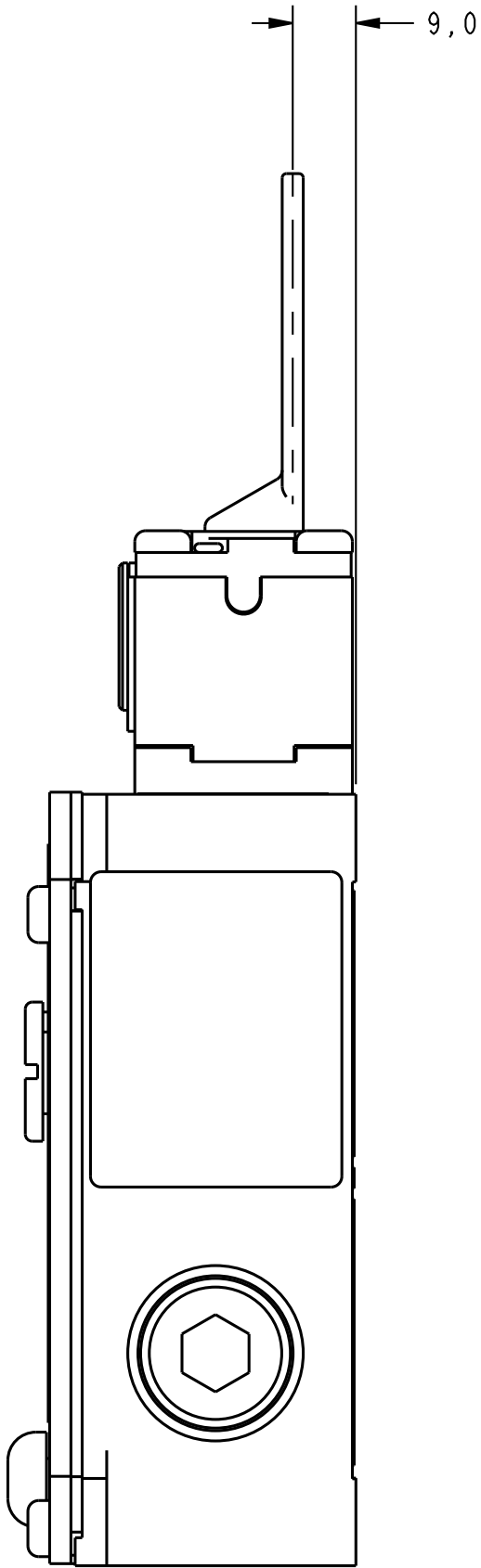


WITH KEY IN FRONT ENTRY POSITION

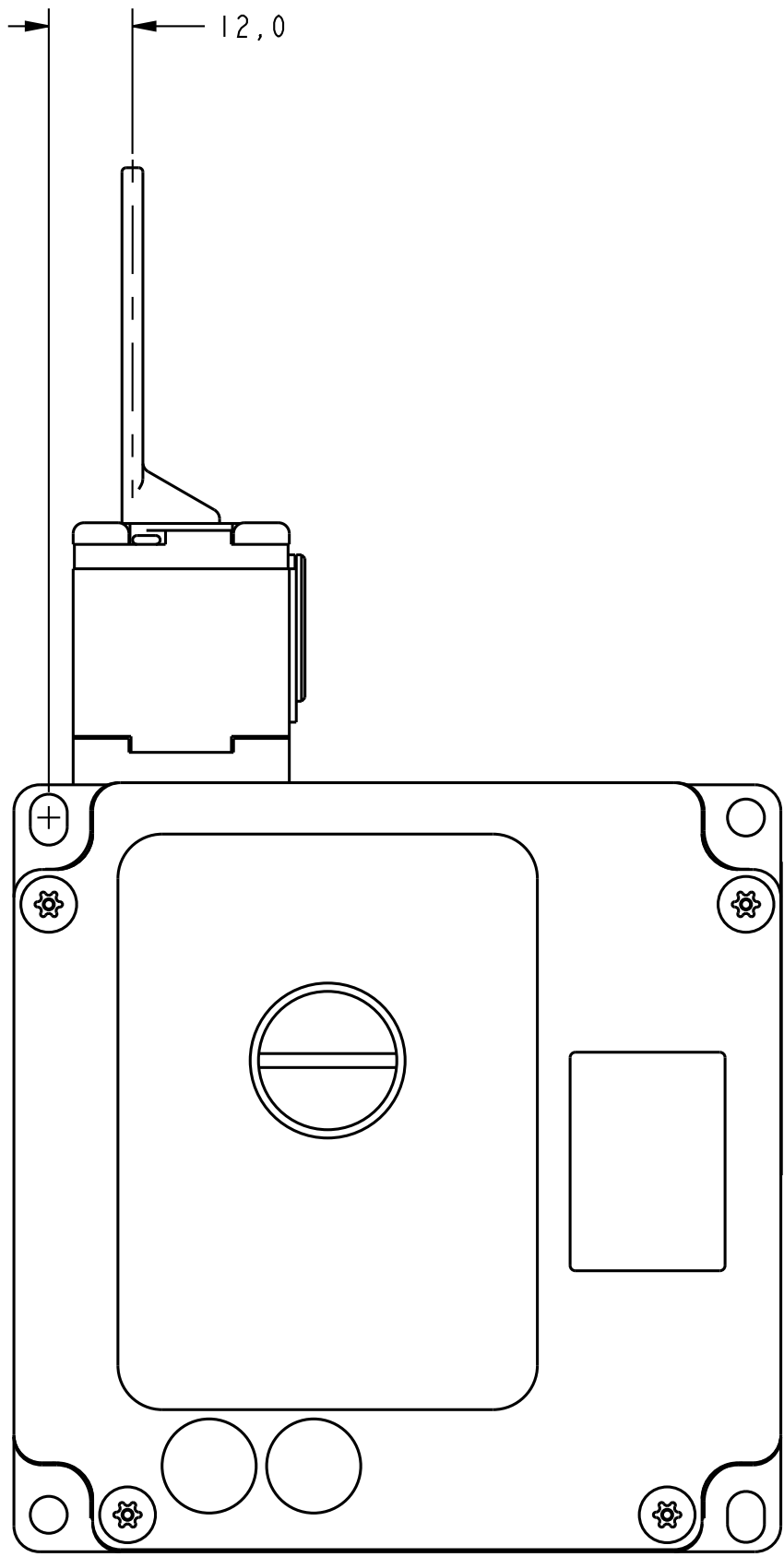


WITH KEY IN TOP ENTRY POSITION

HEAD CODE L

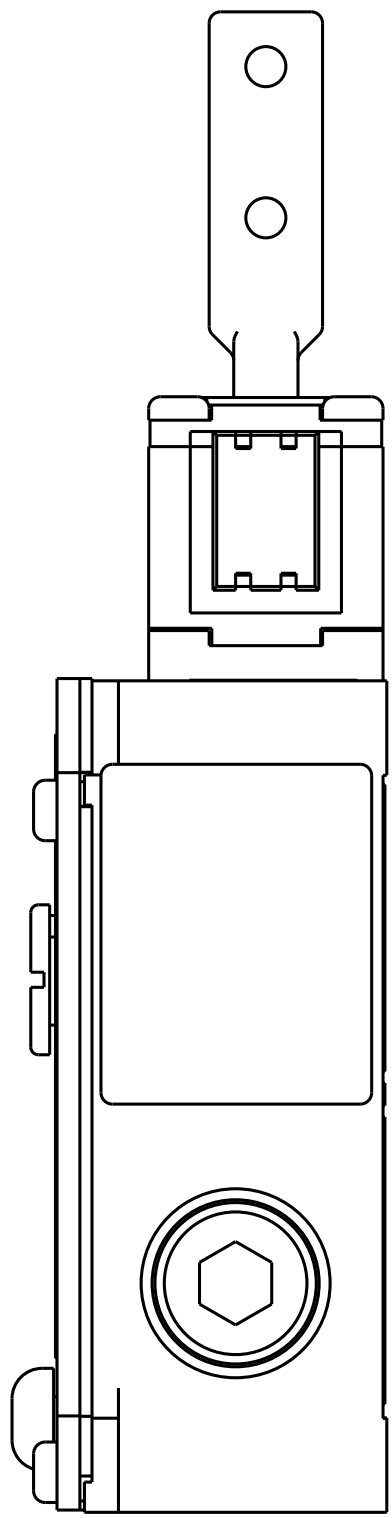


WITH KEY IN FRONT ENTRY POSITION



WITH KEY IN TOP ENTRY POSITION

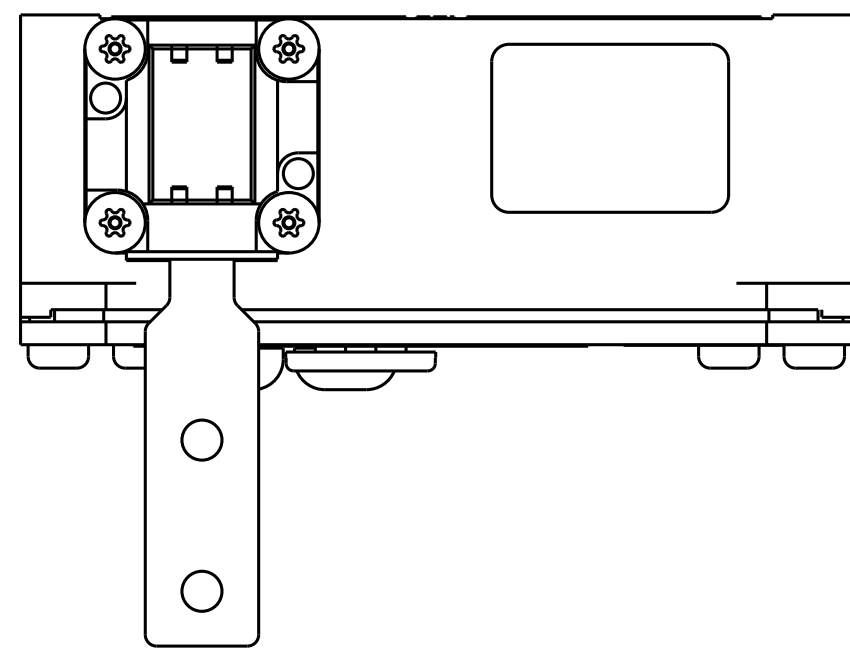
HEAD CODE M



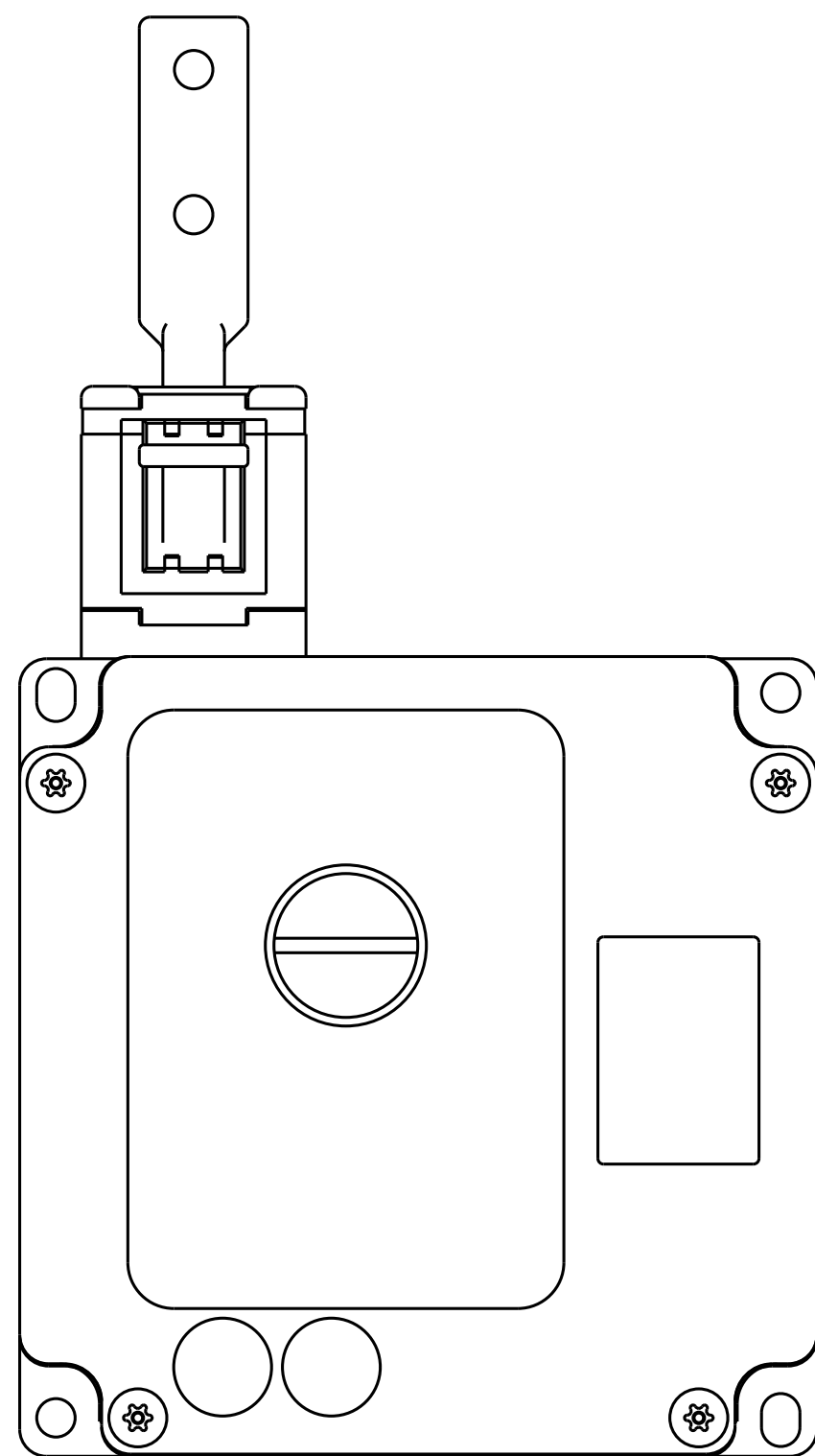
PTC/CAD 3D		DRAWING NUMBER		ISSUE 5254		MKG SERIES CHART 4	
DRAWN		PAGE 4 OF 16		RELEASE NO. PR-23758		REPLACES -	
REVISIONS							
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R	0083578	MSR	10NOV11				
MAJ	28SEP08	check	CMH	12MAY09	check	PRS	04FEB09
check	CMH	10NOV11	check	CMH	12MAY09	check	PRS

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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 :			
NO PLACES		TOL.	
ONE PLACE	±.2	1/16	±.1
TWO PLACES	±.12	0.01/0.06	±.1
THREE PLACES	±.05	0.15/0.06	±.05
ANGLES			

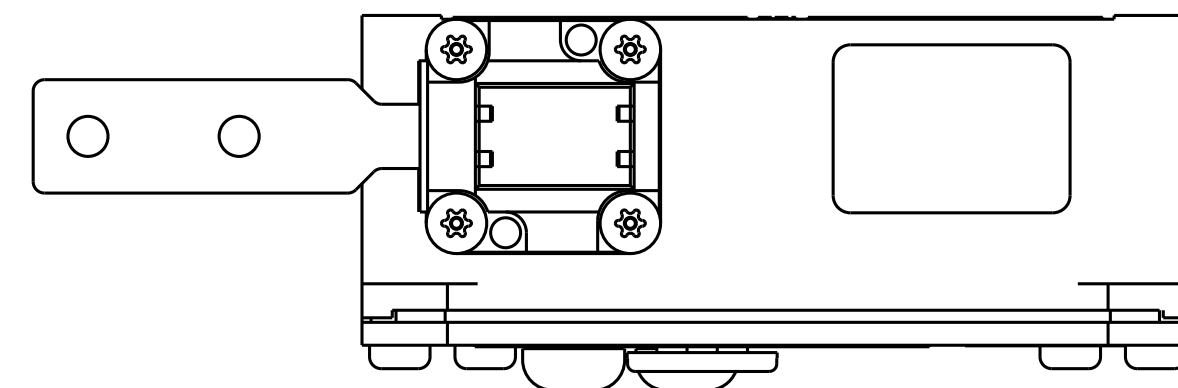
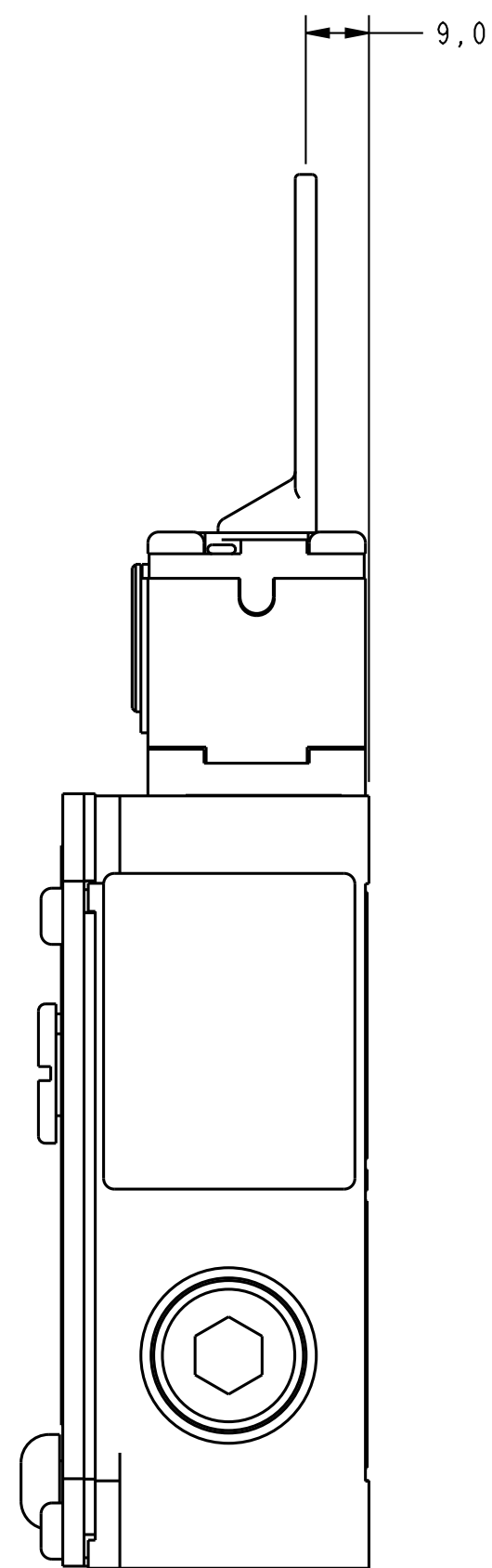


WITH KEY IN FRONT ENTRY POSITION

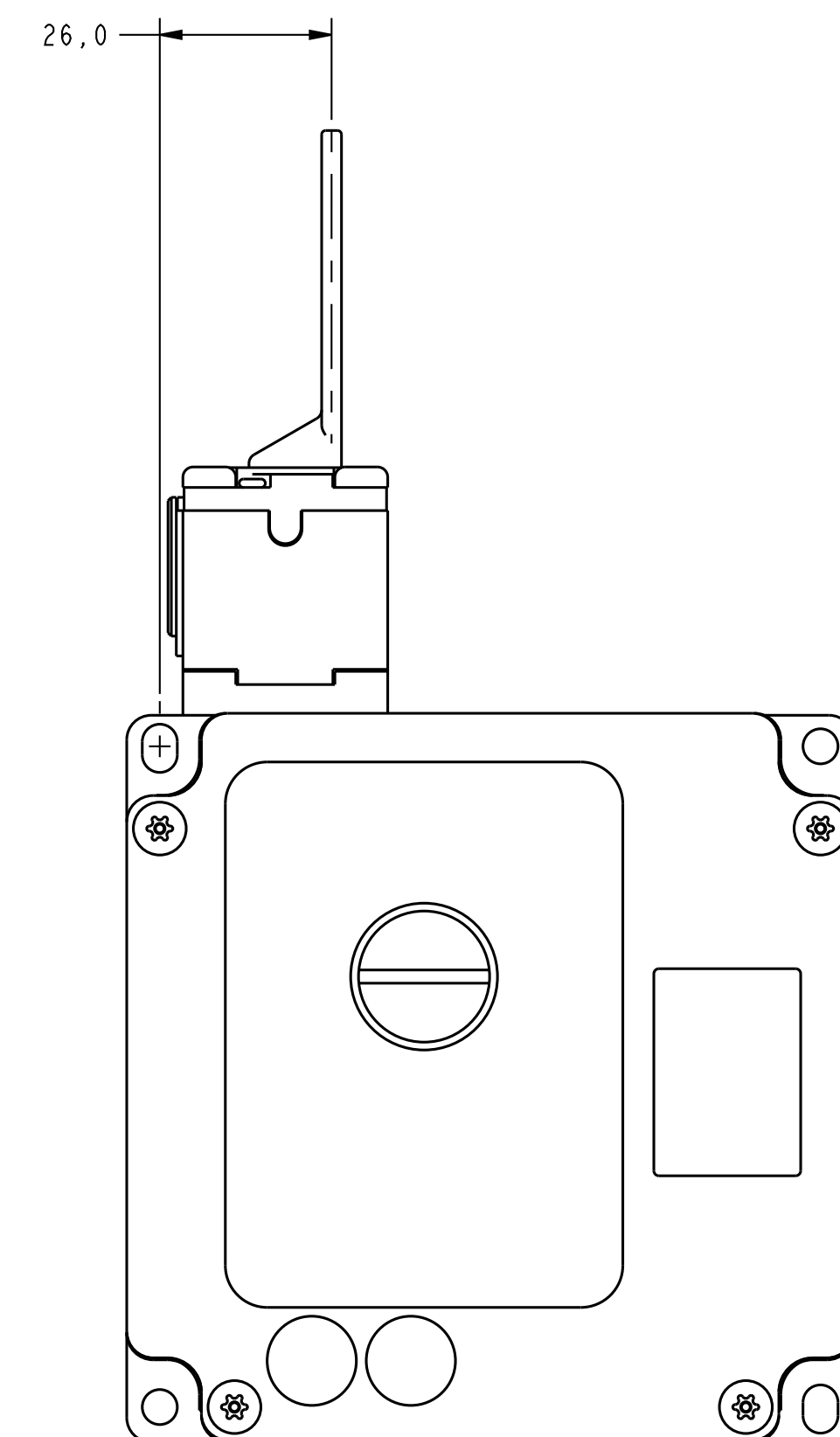


WITH KEY IN TOP ENTRY POSITION

HEAD CODE N



WITH KEY IN FRONT ENTRY POSITION



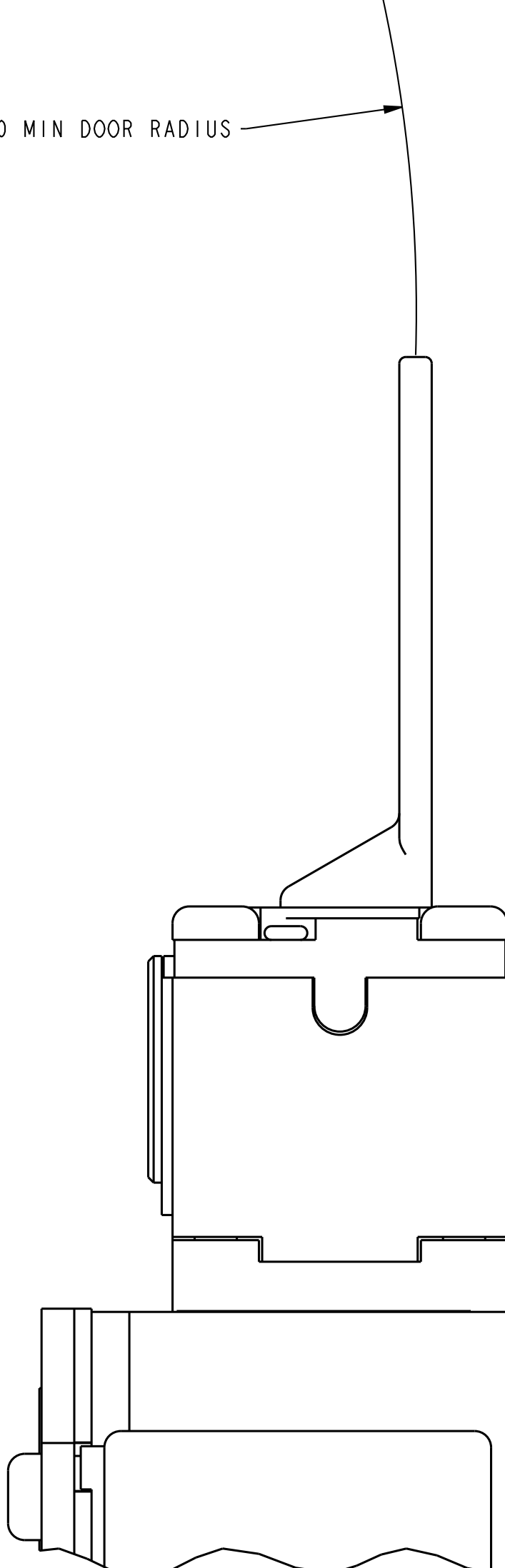
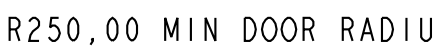
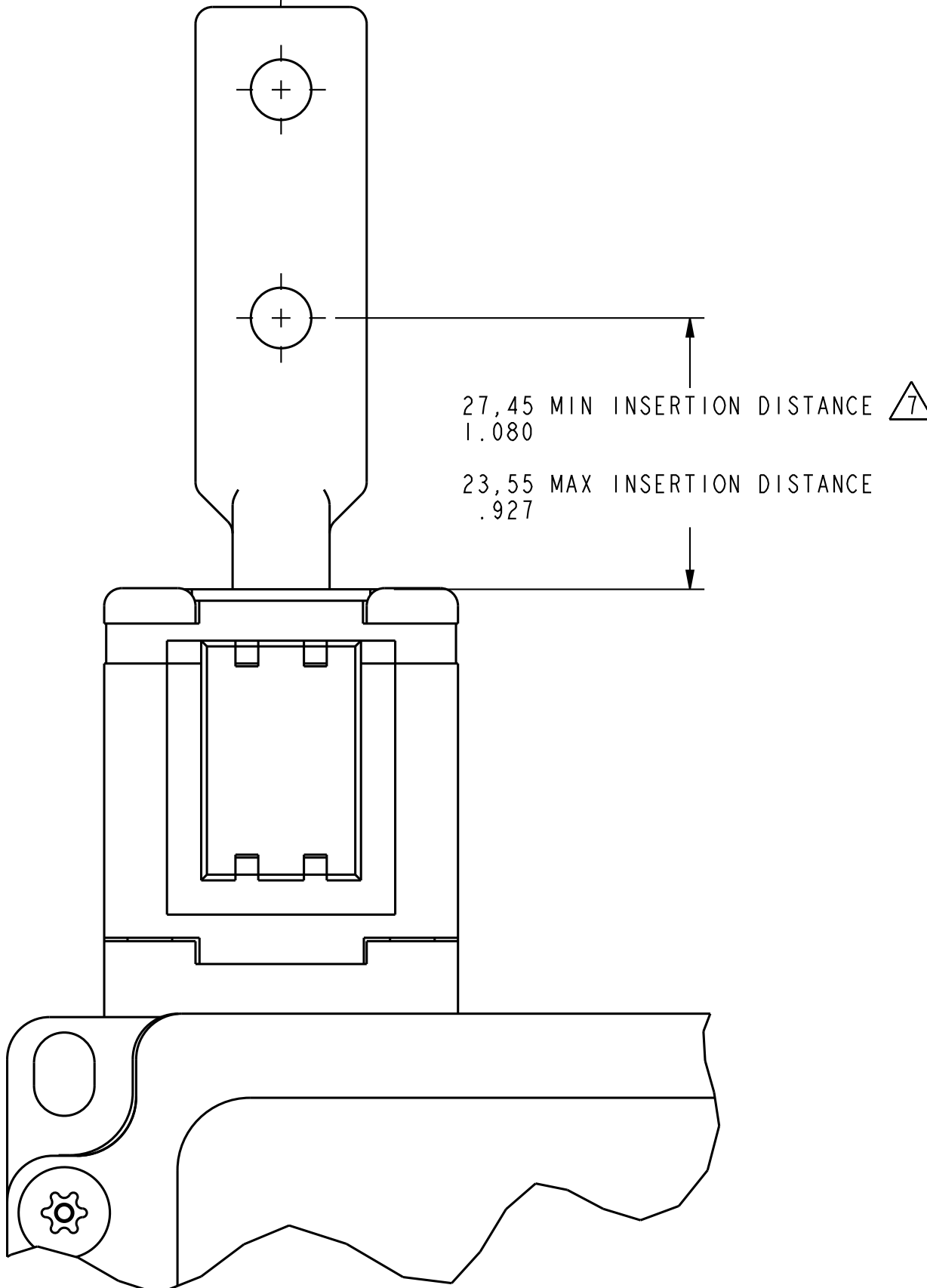
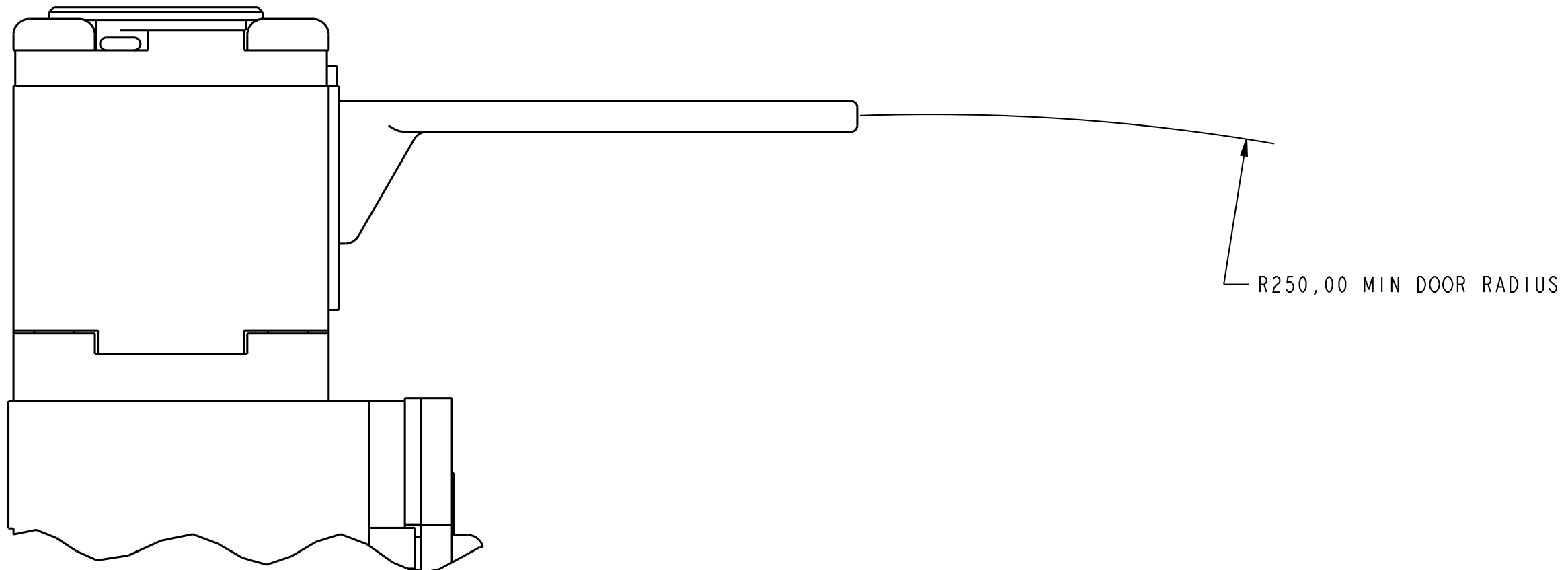
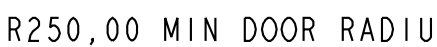
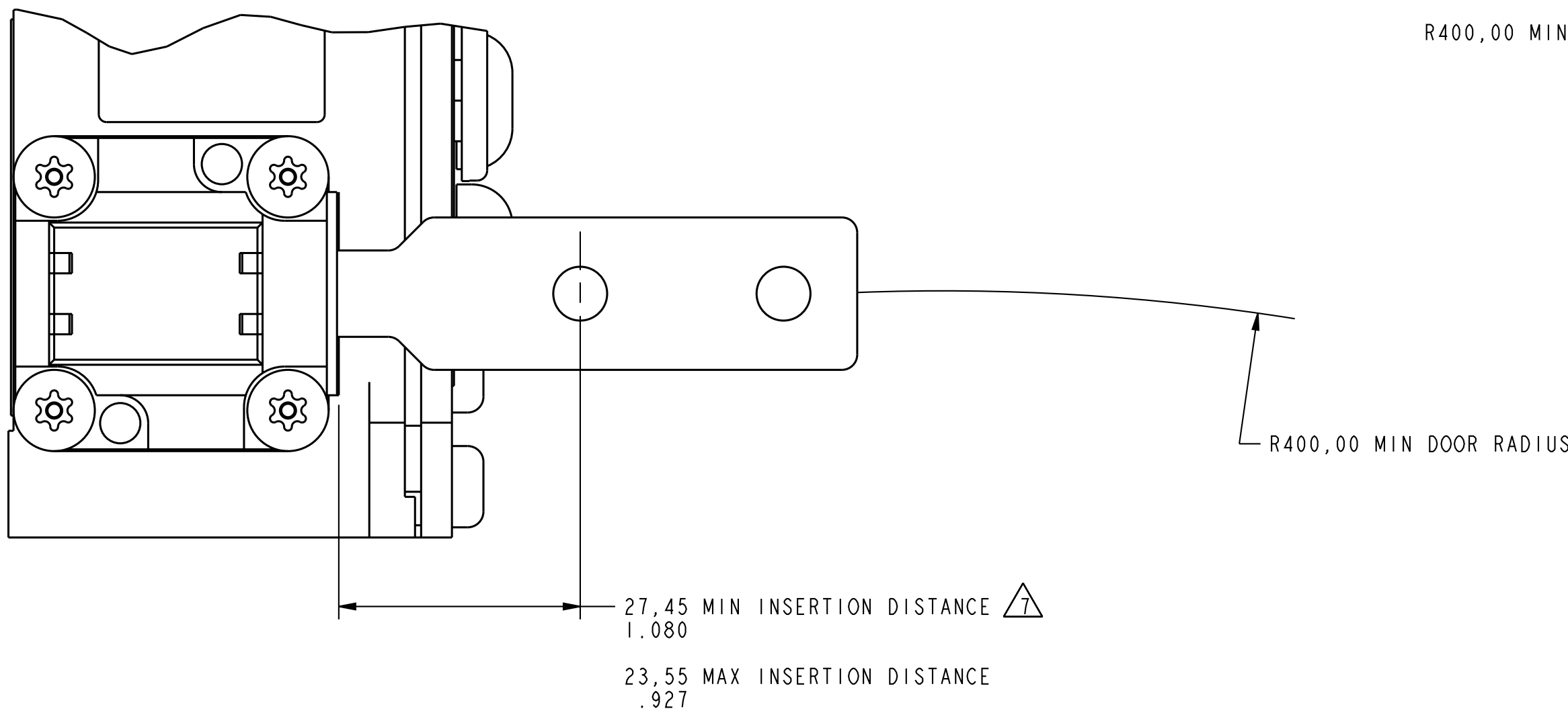
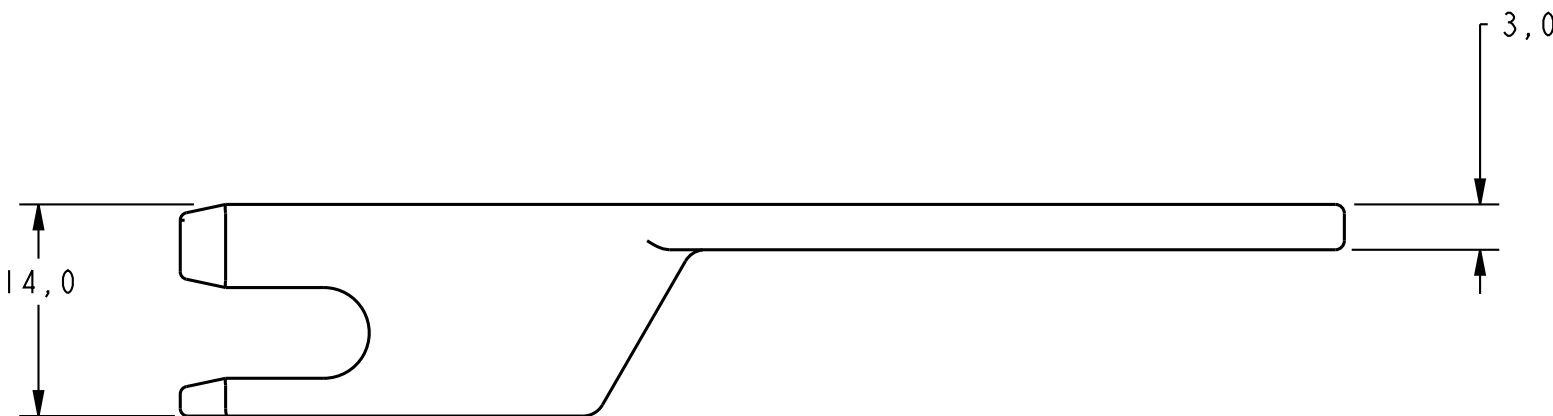
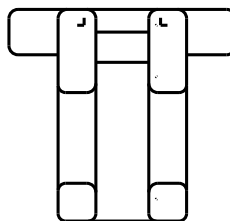
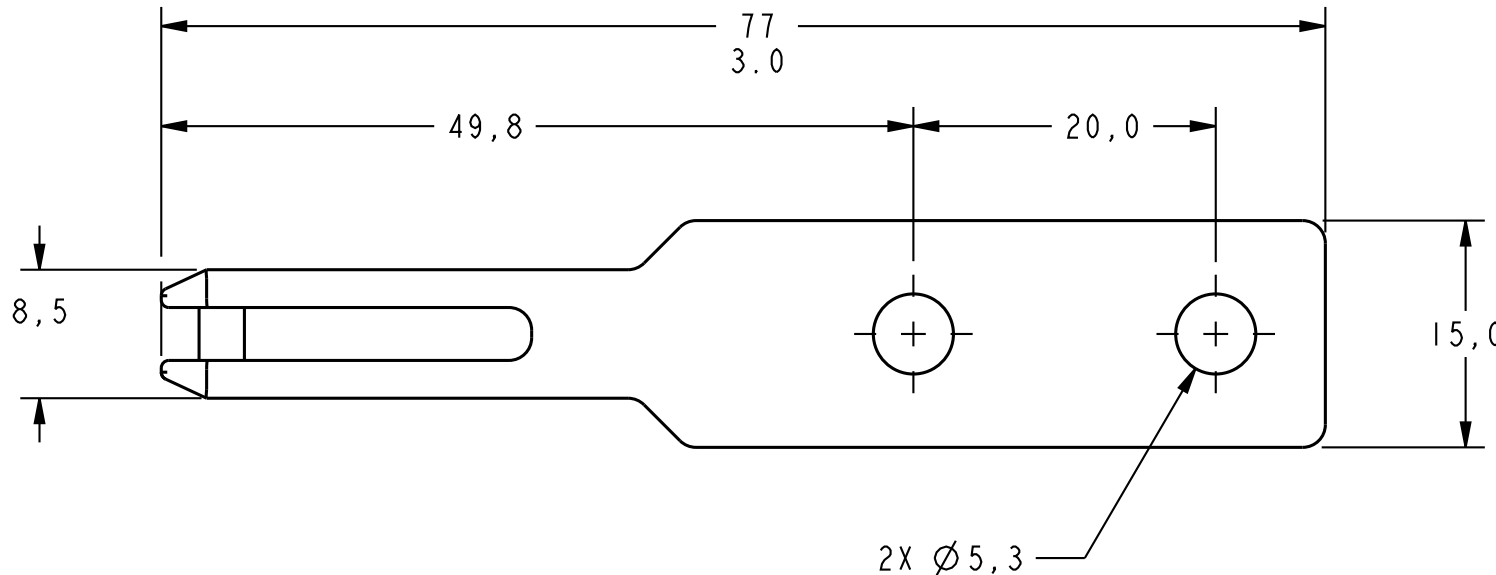
WITH KEY IN TOP ENTRY POSITION

HEAD CODE P

PTC/CAD 30		DRAWING NUMBER		ISSUE 5254		M		GK SERIES CHART 4	
								PAGE 5 OF 16	
REVISIONS N 0047593 SSR 04FEB09 P 0065737 TSC 31KAT10 R 0035758 RBN 10NOV11									
MAM 30SEP98		CHECK	CMH	2MAY99	CHECK	PRS	04FEB09	CHECK	CMH
RELEASE NO. PR-23758		REPLACES -							

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>1</td><td>0.001 (0.025)</td><td>11</td><td>0.001 (0.025)</td></tr><tr><td>2</td><td>0.001 (0.025)</td><td>12</td><td>0.001 (0.025)</td></tr><tr><td>3</td><td>0.001 (0.025)</td><td>13</td><td>0.001 (0.025)</td></tr><tr><td>4</td><td>0.001 (0.025)</td><td>14</td><td>0.001 (0.025)</td></tr><tr><td>5</td><td>0.001 (0.025)</td><td>15</td><td>0.001 (0.025)</td></tr><tr><td>6</td><td>0.001 (0.025)</td><td>16</td><td>0.001 (0.025)</td></tr><tr><td>7</td><td>0.001 (0.025)</td><td>17</td><td>0.001 (0.025)</td></tr><tr><td>8</td><td>0.001 (0.025)</td><td>18</td><td>0.001 (0.025)</td></tr><tr><td>9</td><td>0.001 (0.025)</td><td>19</td><td>0.001 (0.025)</td></tr><tr><td>10</td><td>0.001 (0.025)</td><td>20</td><td>0.001 (0.025)</td></tr></table>		DIM	TOL	DIM	TOL	1	0.001 (0.025)	11	0.001 (0.025)	2	0.001 (0.025)	12	0.001 (0.025)	3	0.001 (0.025)	13	0.001 (0.025)	4	0.001 (0.025)	14	0.001 (0.025)	5	0.001 (0.025)	15	0.001 (0.025)	6	0.001 (0.025)	16	0.001 (0.025)	7	0.001 (0.025)	17	0.001 (0.025)	8	0.001 (0.025)	18	0.001 (0.025)	9	0.001 (0.025)	19	0.001 (0.025)	10	0.001 (0.025)	20	0.001 (0.025)
DIM	TOL	DIM	TOL																																												
1	0.001 (0.025)	11	0.001 (0.025)																																												
2	0.001 (0.025)	12	0.001 (0.025)																																												
3	0.001 (0.025)	13	0.001 (0.025)																																												
4	0.001 (0.025)	14	0.001 (0.025)																																												
5	0.001 (0.025)	15	0.001 (0.025)																																												
6	0.001 (0.025)	16	0.001 (0.025)																																												
7	0.001 (0.025)	17	0.001 (0.025)																																												
8	0.001 (0.025)	18	0.001 (0.025)																																												
9	0.001 (0.025)	19	0.001 (0.025)																																												
10	0.001 (0.025)	20	0.001 (0.025)																																												
FED. MFG. CODE 91929	CATALOG LISTING	<table><tr><td>NO PLACES</td><td>1</td><td>0.001 (0.025)</td></tr><tr><td>TWO PLACES</td><td>2</td><td>0.001 (0.025)</td></tr><tr><td>THREE PLACES</td><td>3</td><td>0.001 (0.025)</td></tr><tr><td>ANGLES</td><td>4</td><td>0.001 (0.025)</td></tr></table>		NO PLACES	1	0.001 (0.025)	TWO PLACES	2	0.001 (0.025)	THREE PLACES	3	0.001 (0.025)	ANGLES	4	0.001 (0.025)																																
NO PLACES	1	0.001 (0.025)																																													
TWO PLACES	2	0.001 (0.025)																																													
THREE PLACES	3	0.001 (0.025)																																													
ANGLES	4	0.001 (0.025)																																													
 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>WEIGHT</td><td>1.5 KG</td><td>3.3 LB</td><td></td></tr></table>		SI METRIC	☒	US CUSTOMARY	☐	DESIGN UNITS				WEIGHT	1.5 KG	3.3 LB																																	
SI METRIC	☒	US CUSTOMARY	☐																																												
DESIGN UNITS																																															
WEIGHT	1.5 KG	3.3 LB																																													

KEY CODE 6

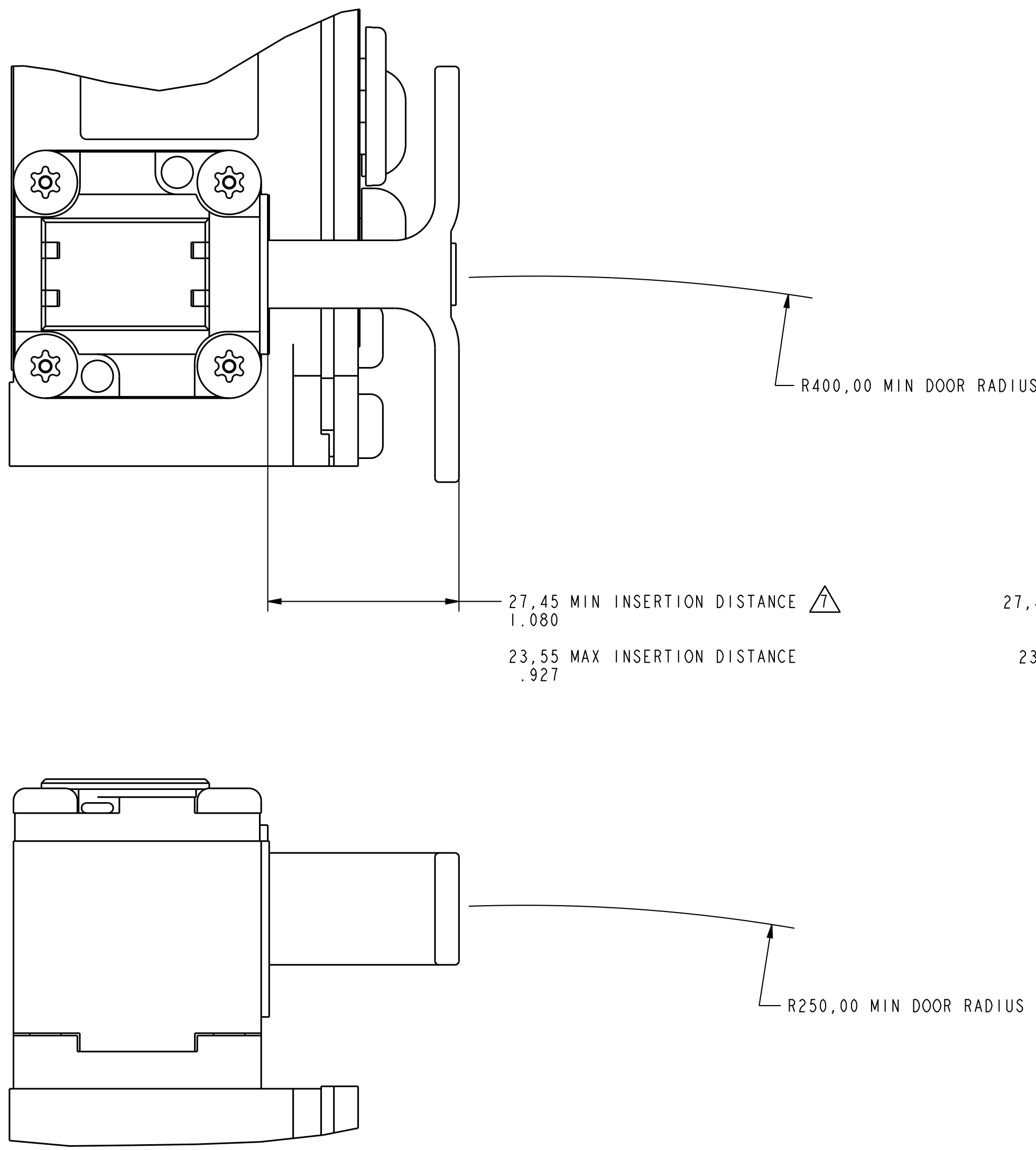


FRONT KEY ENTRY

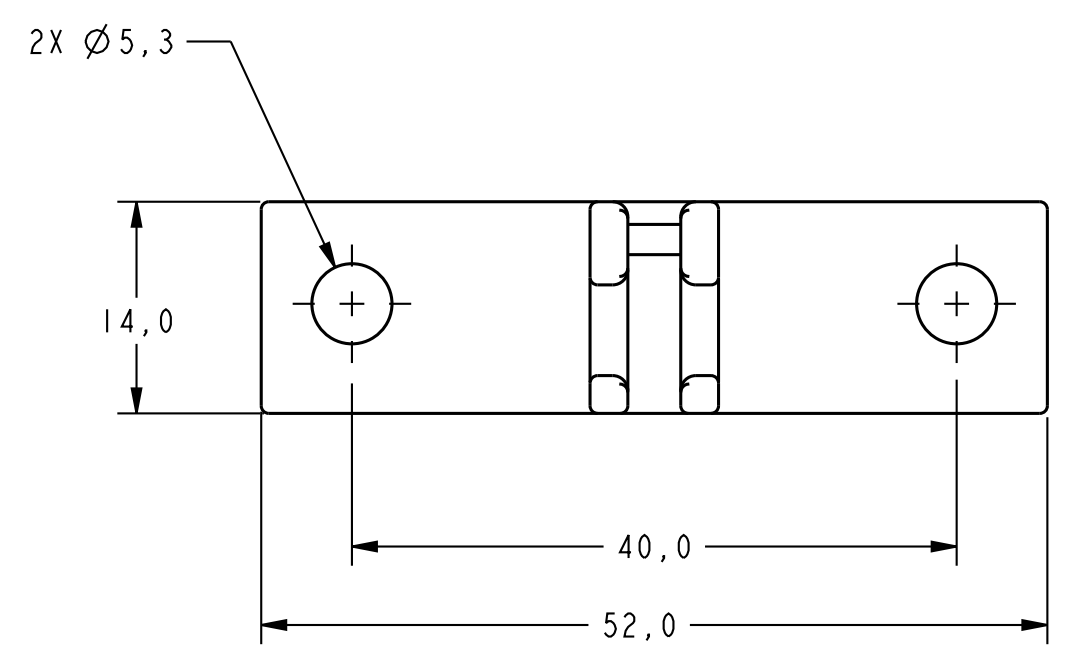
TOP KEY ENTRY

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.		NO PLACES ONE PLACE TWO PLACES THREE PLACES ANGLES		TOL 1/16" .04 1/8" .08 3/16" .12 1/2" .15 5/8" .20 3/4" .25 1" .3125		TOL 1/16" .04 1/8" .08 3/16" .12 1/2" .15 5/8" .20 3/4" .25 1" .3125	
FED. MFG. CODE 91929		CATALOG LISTING		S1 METRIC ☒		US CUSTOMARY ☐	
MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK		GK SERIES CHART 4		WEIGHT 1,5 KG / 3,3 LB	

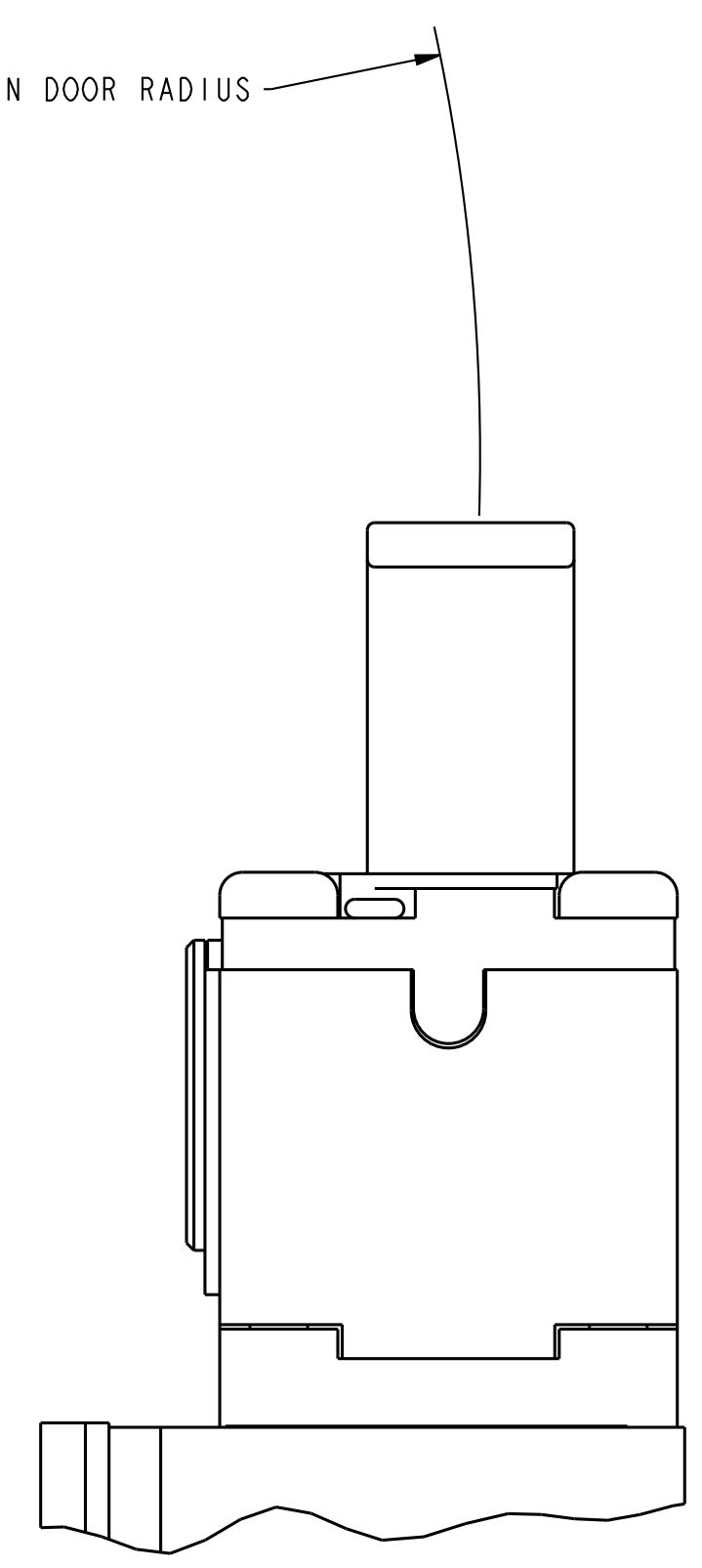
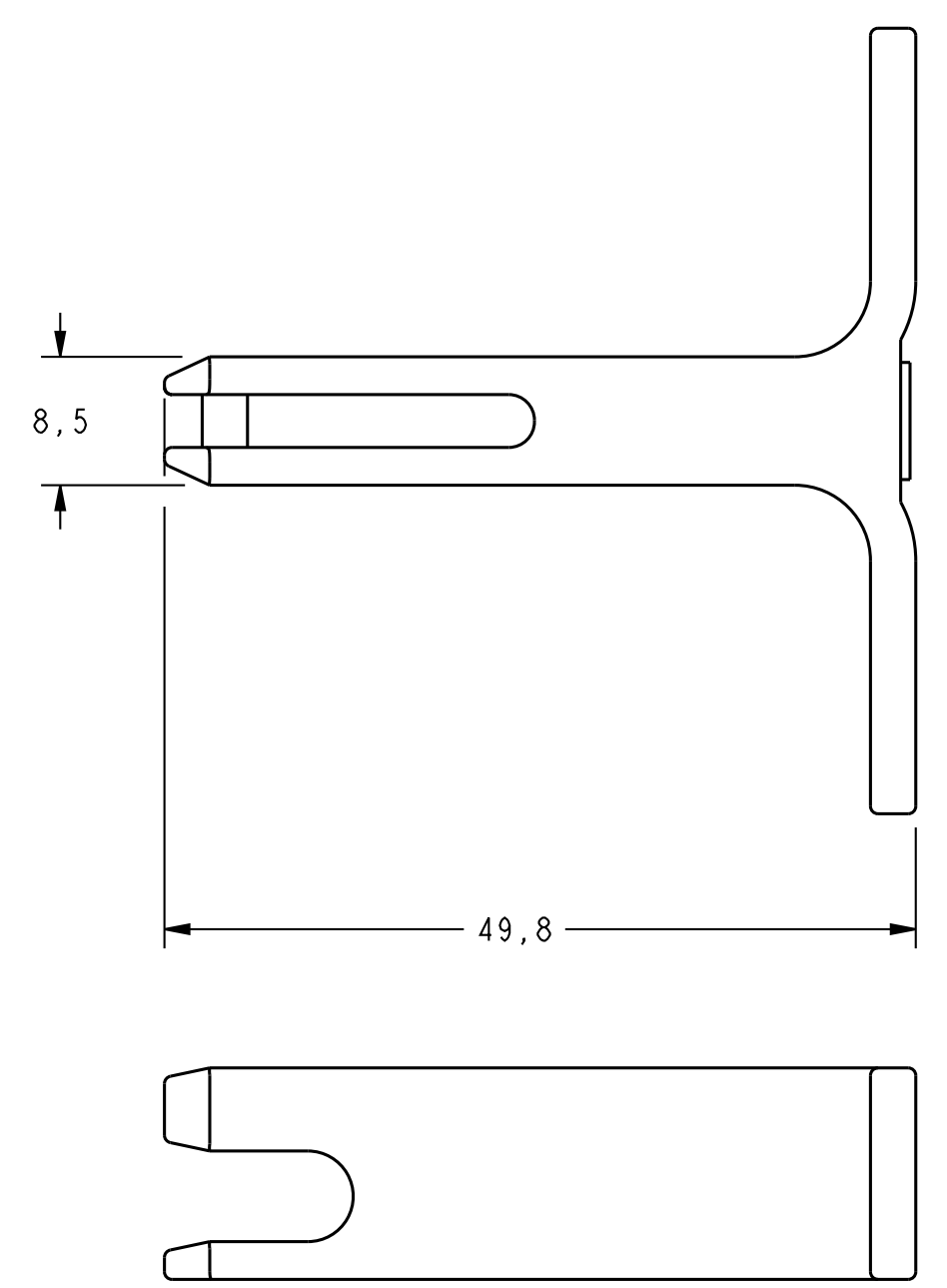
KEY CODE 7



FRONT KEY ENTRY



TOP KEY ENTRY

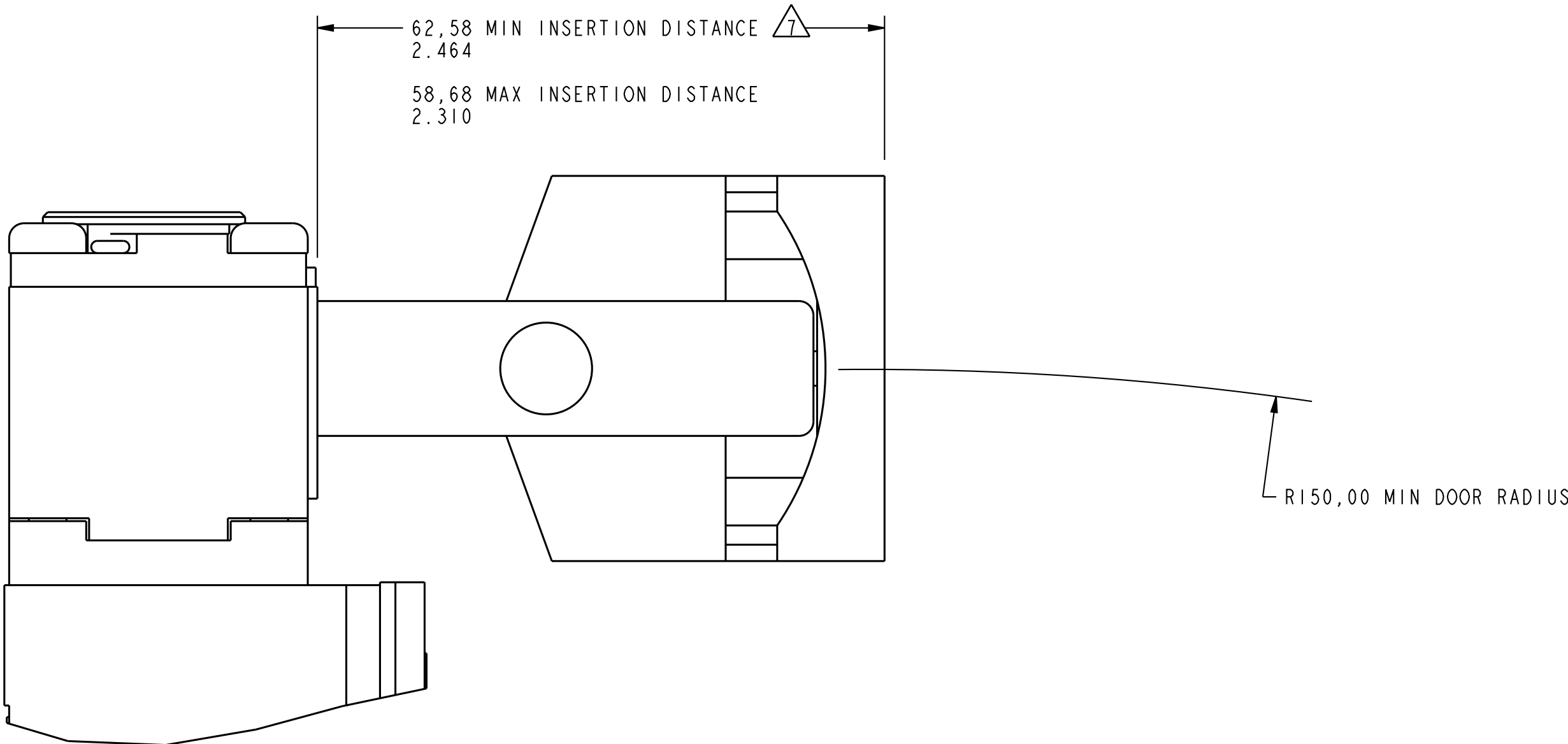
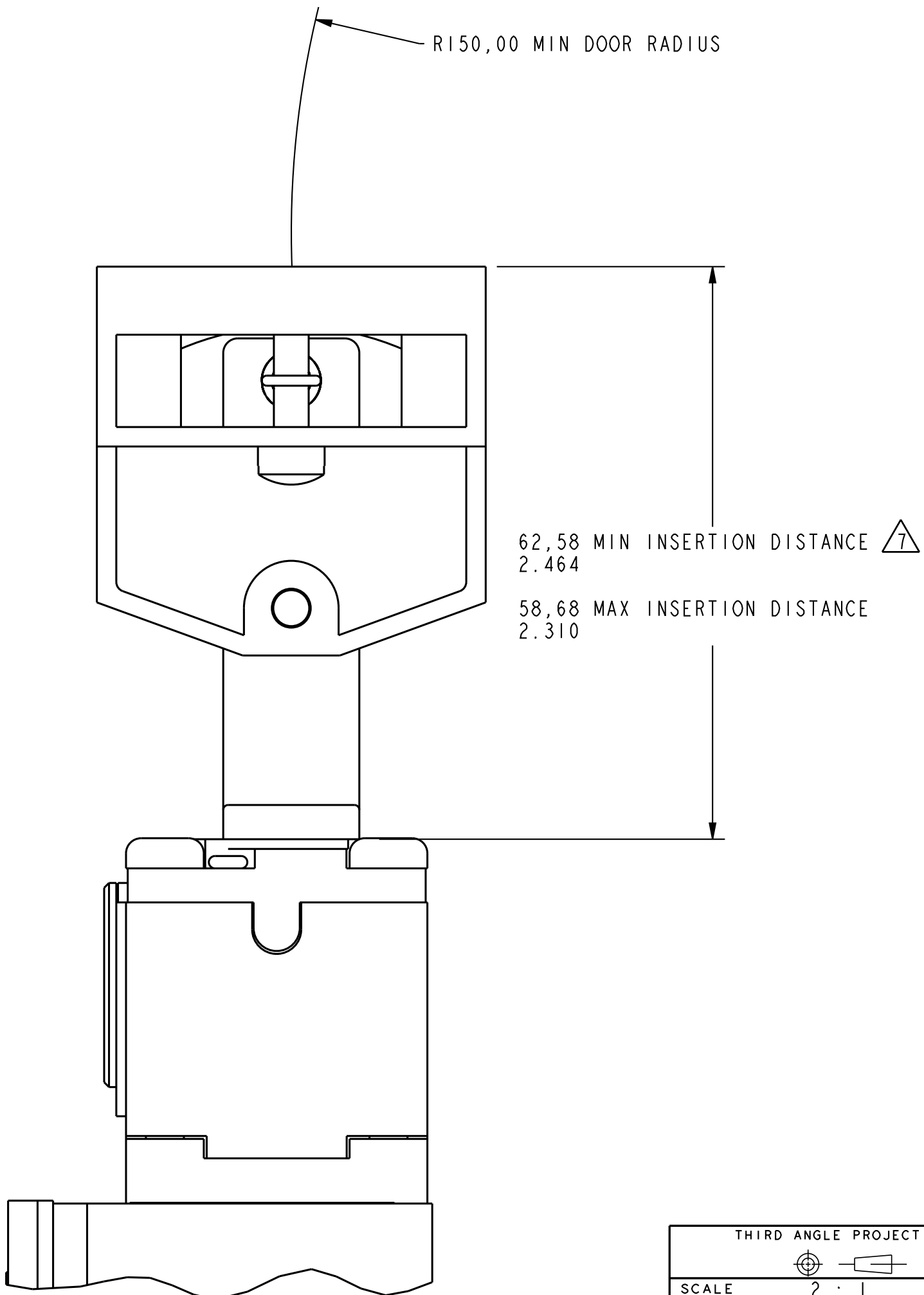
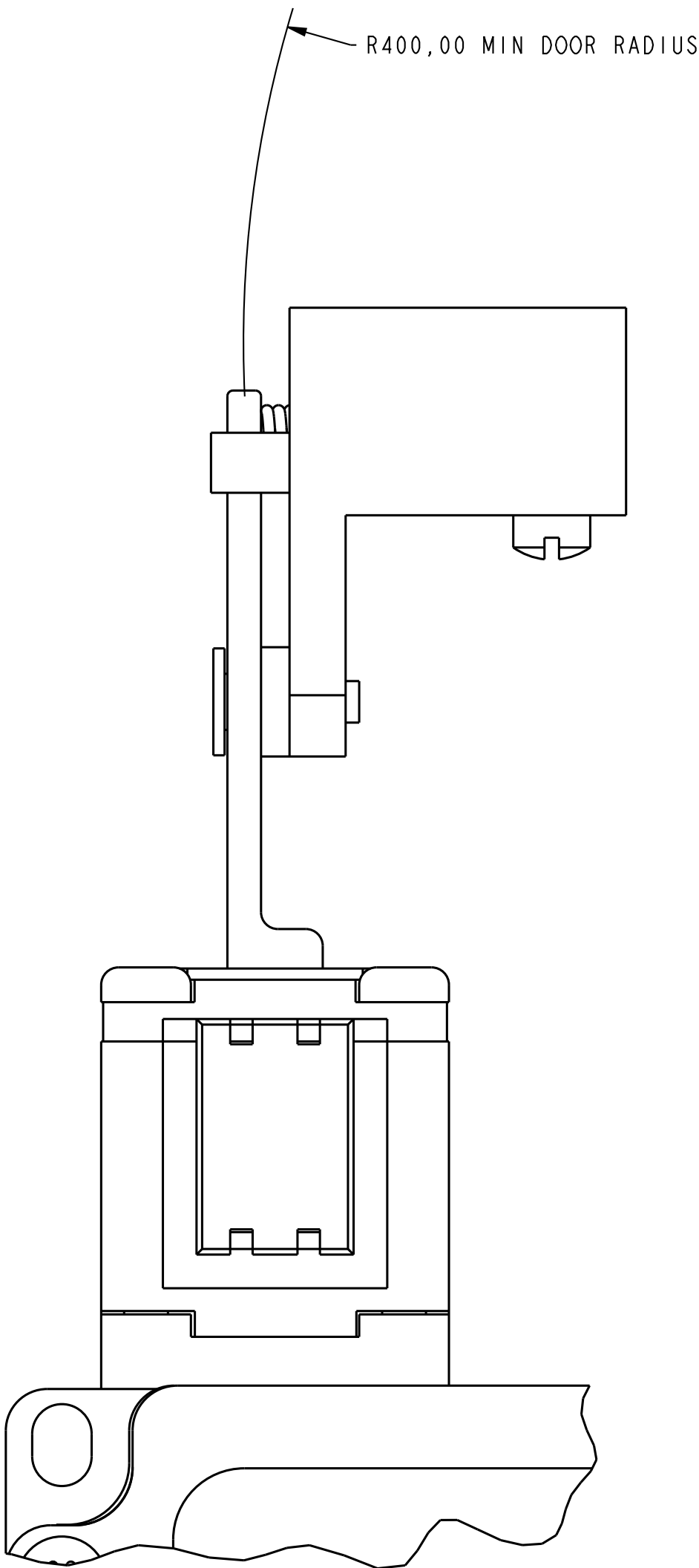
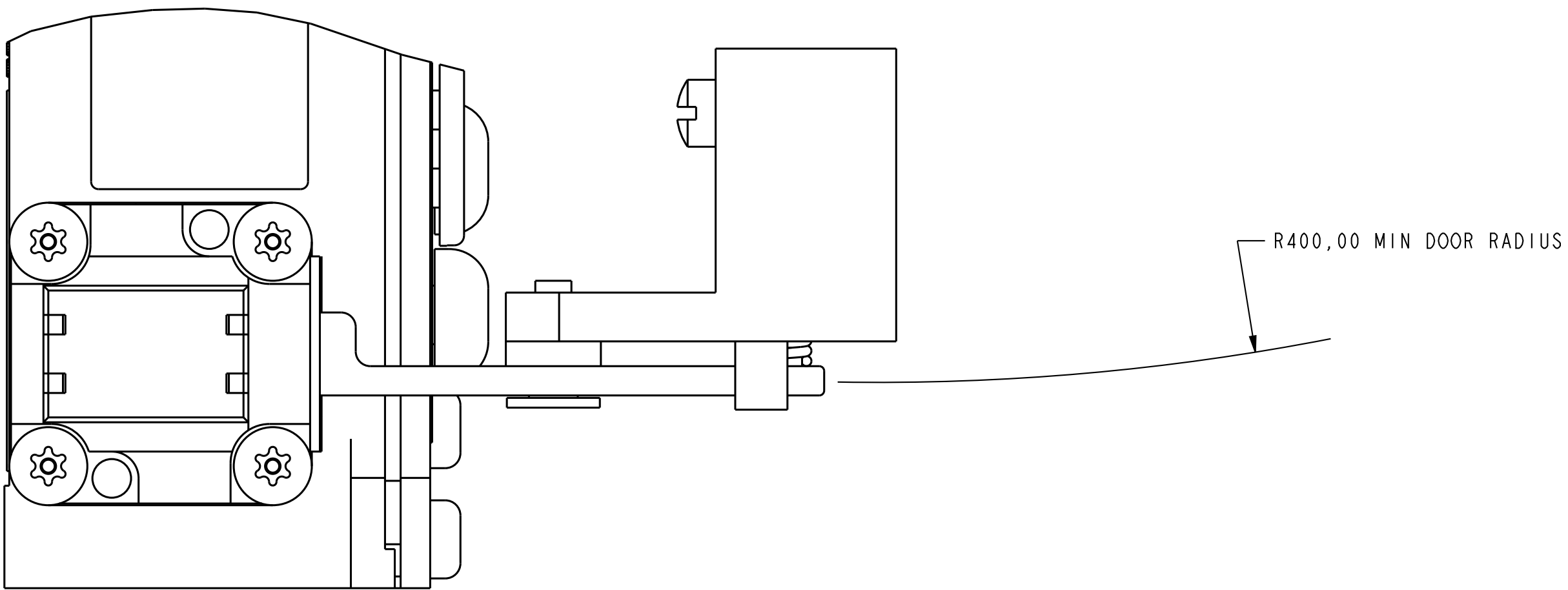
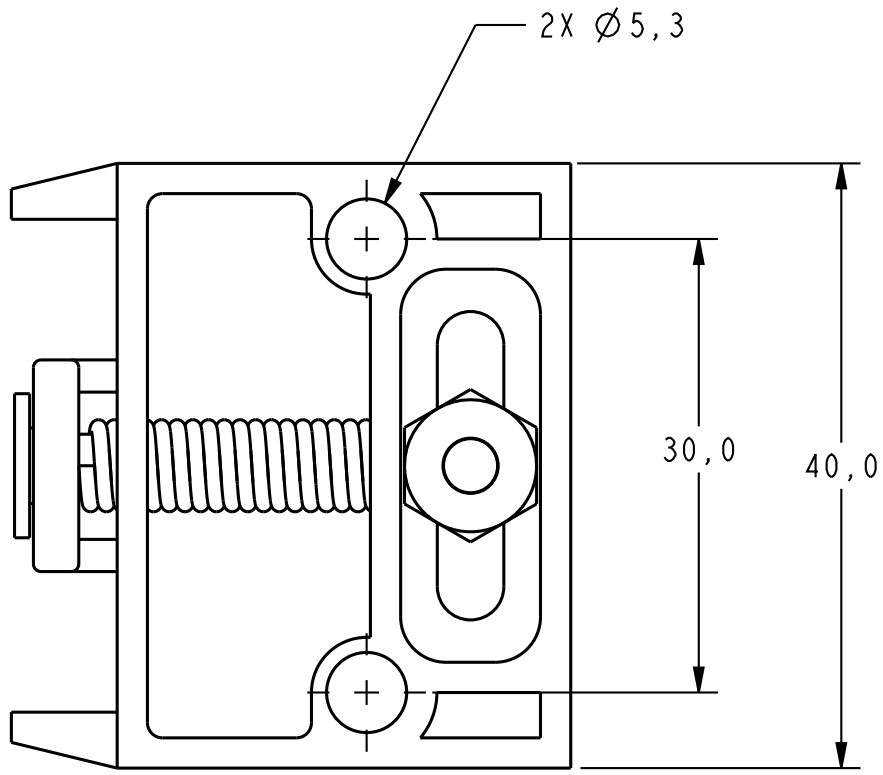
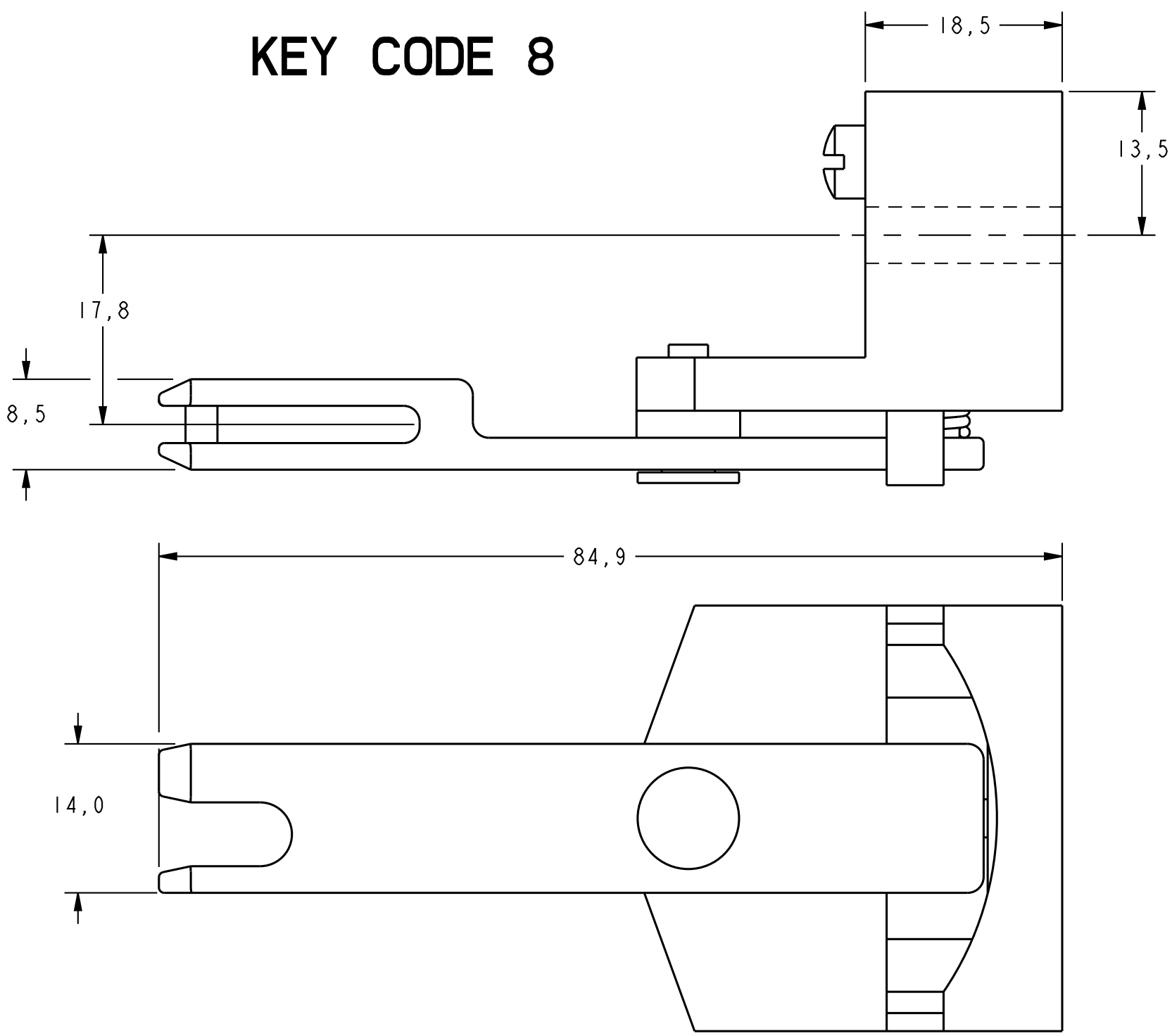


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FED. MFG. CODE 91929		SWITCH - DOOR INTERLOCK	
MICRO SWITCH a Honeywell Division		GK SERIES CHART 4	
DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY		WEIGHT 1,5 KG / 3,3 LB	

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	ONE PLACE	TWO PLACES	THREE PLACES
MM	IN	MM	IN
1/16	1/32	1/16	1/32
0.0156	0.0078	0.0156	0.0078
0.0156	0.0078	0.0156	0.0078

PTC/CAD 3D	DATE	LOC 98	CHECK	CMH	12MAY98	CHECK	CMH	04FEB09	CHECK	CMH	10NOV11	RELEASE NO. PR-23758	PAGE 7 OF 16	ISSUE 5254	DRAWING NUMBER	REPLACES
PTC/CAD 3D	DATE	LOC 98	CHECK	CMH	12MAY98	CHECK	CMH	04FEB09	CHECK	CMH	10NOV11	RELEASE NO. PR-23758	PAGE 7 OF 16	ISSUE 5254	DRAWING NUMBER	REPLACES

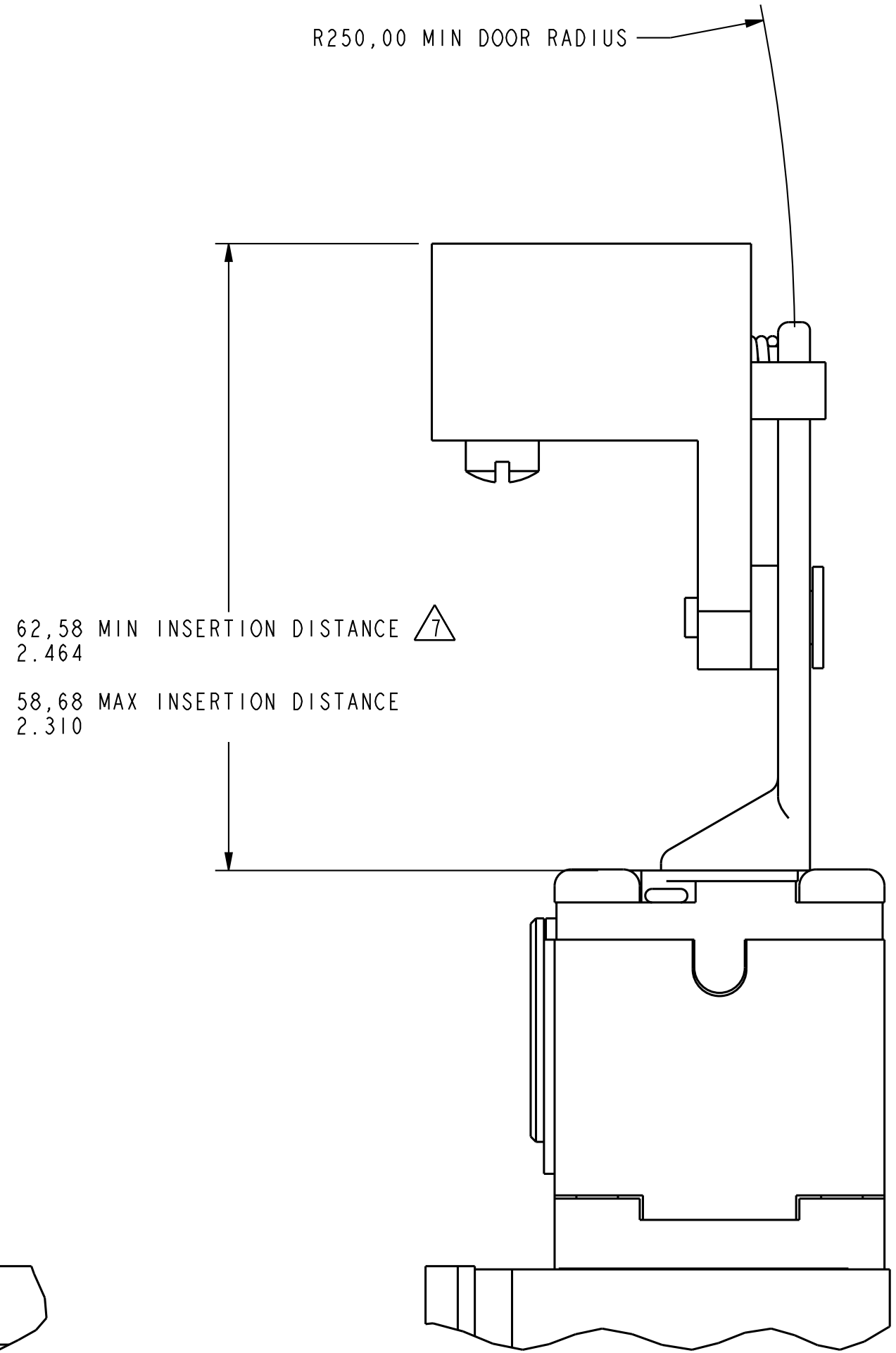
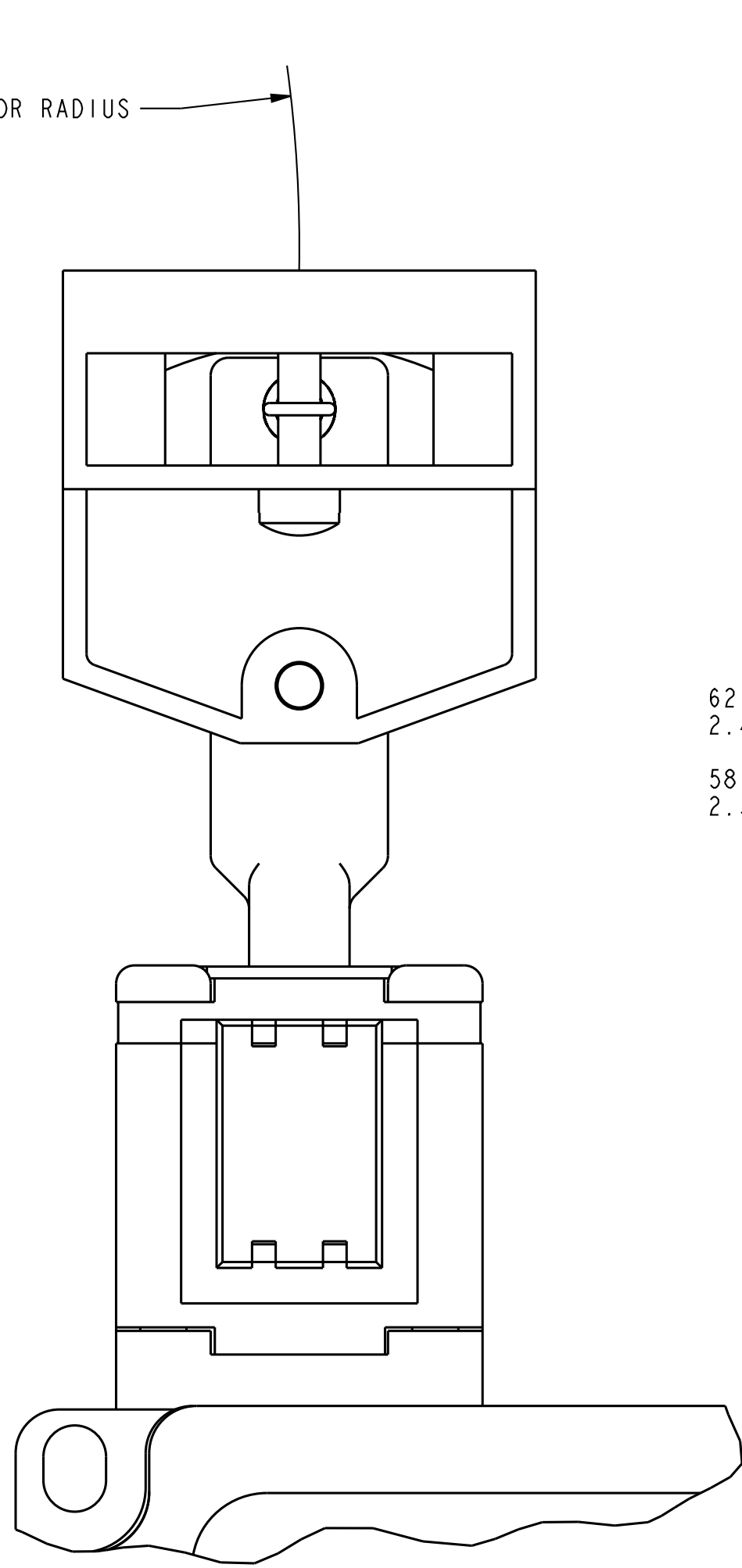
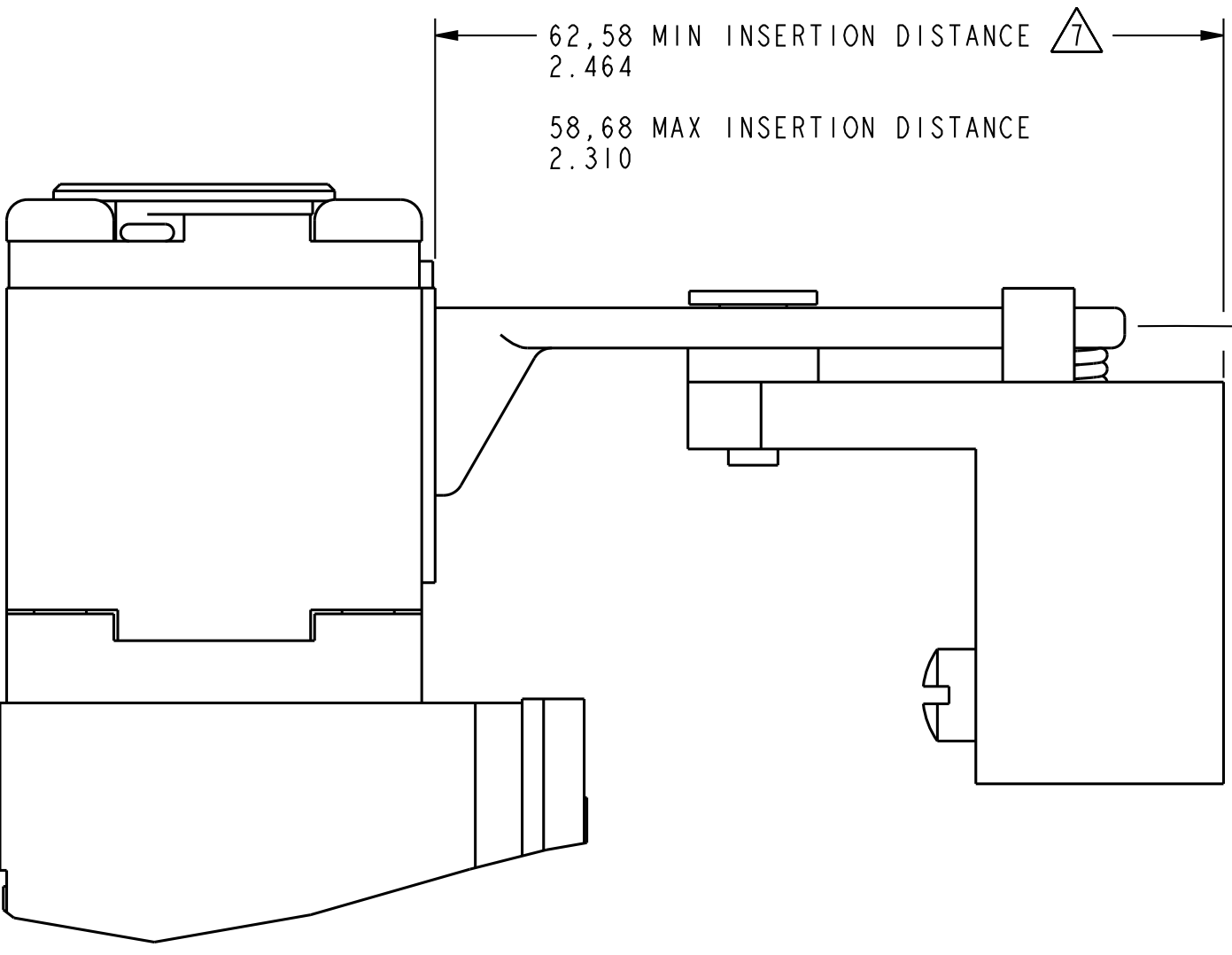
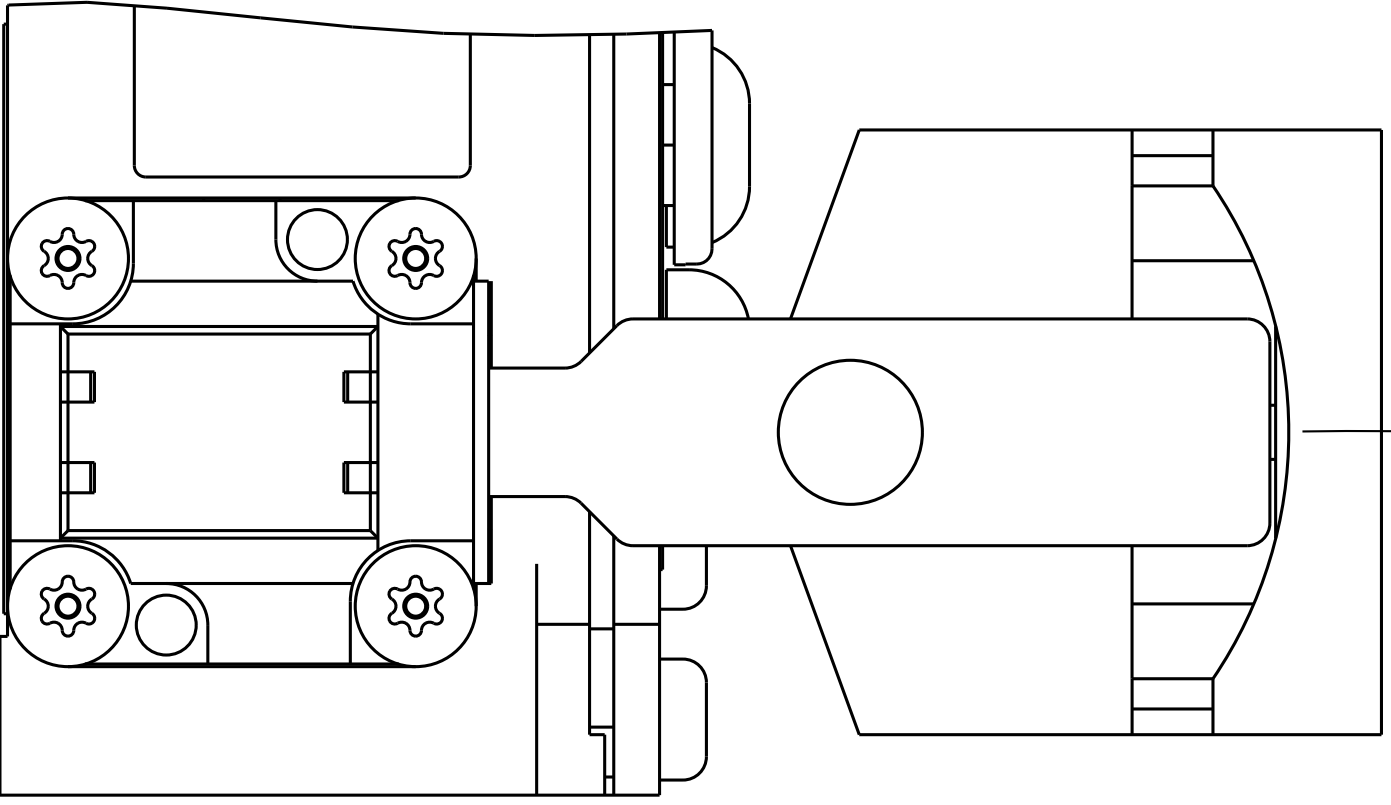
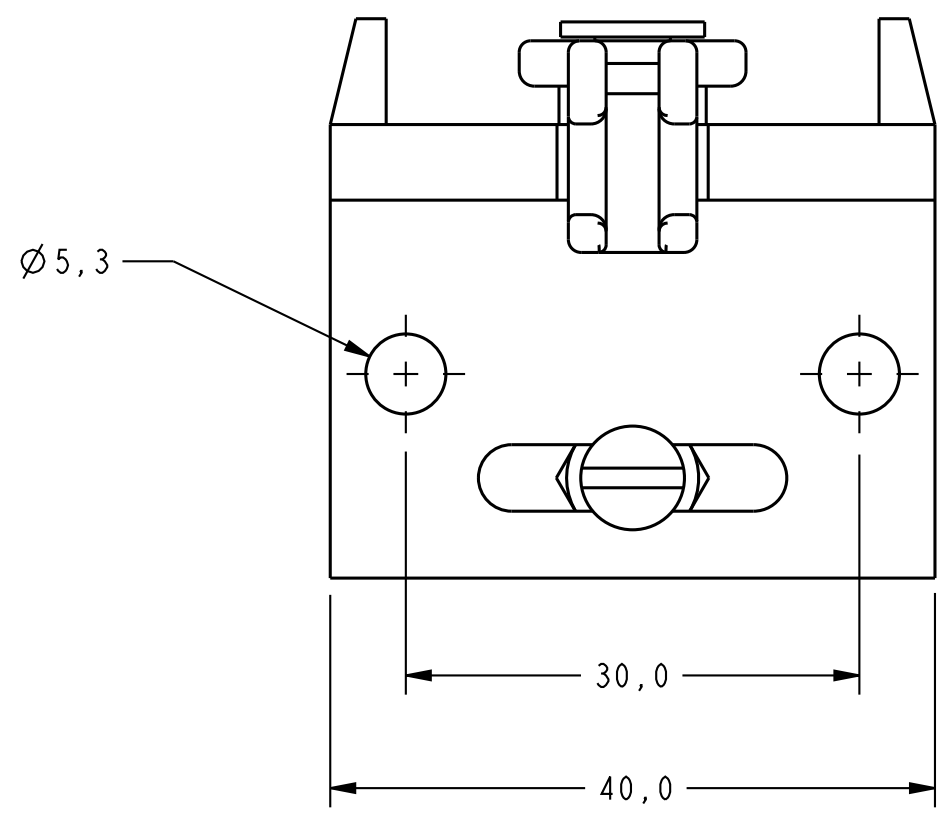
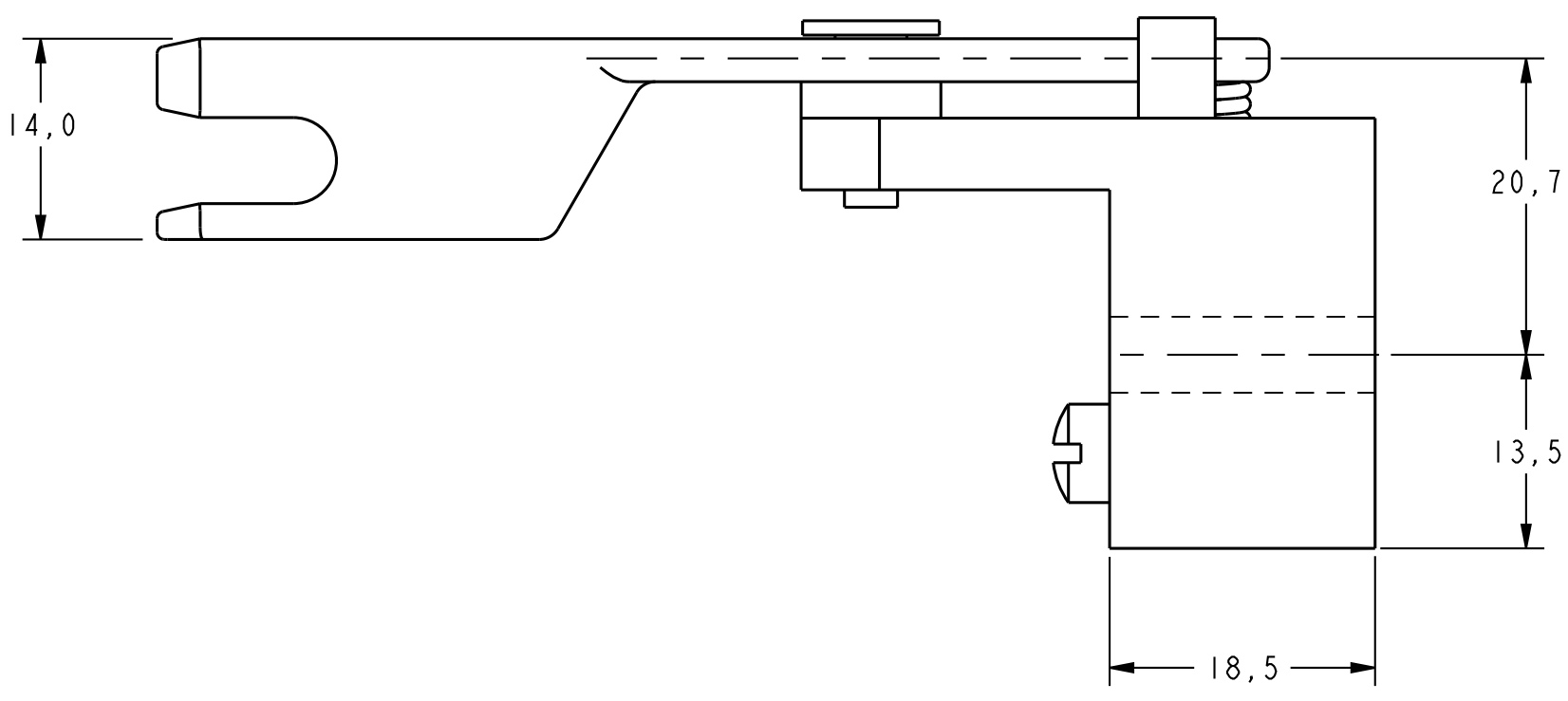
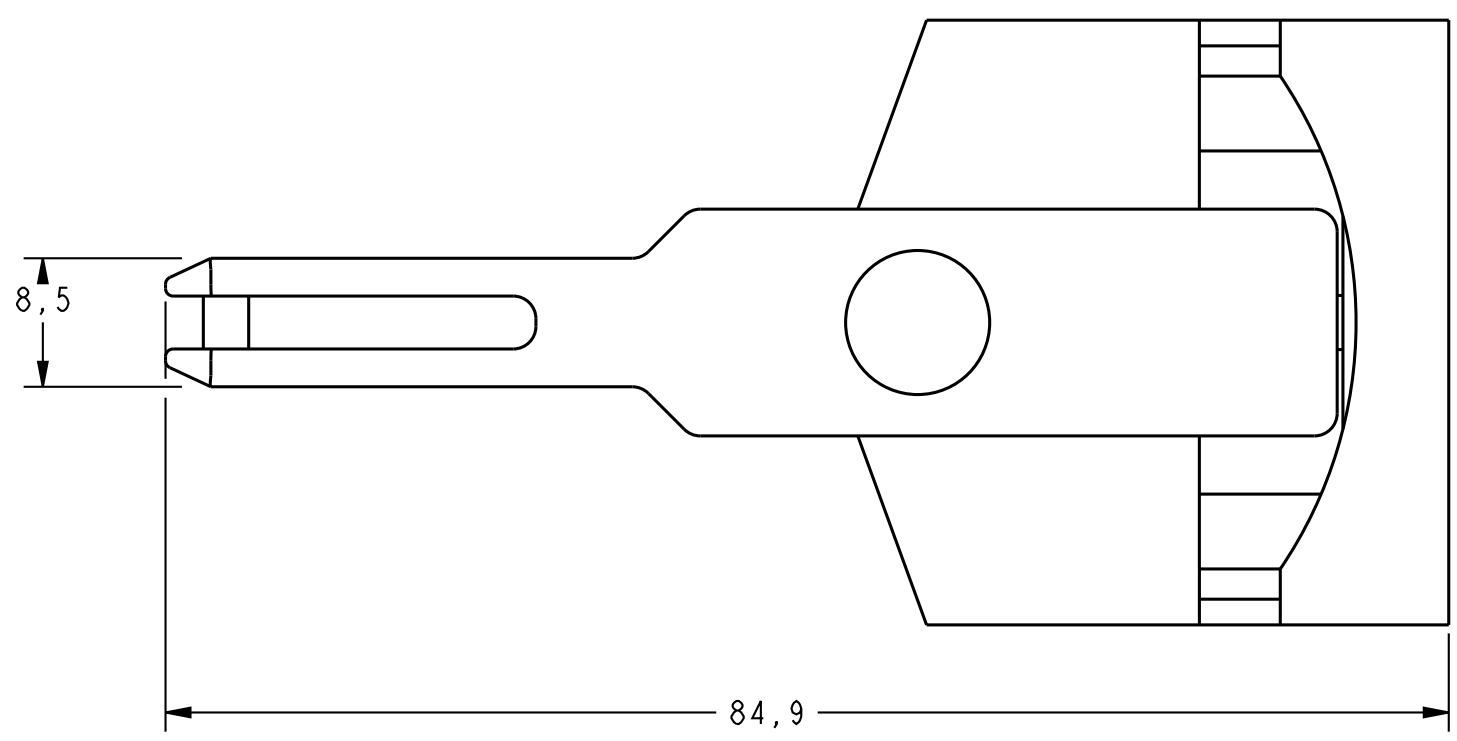
KEY CODE 8



FRONT KEY ENTRY

TOP KEY ENTRY

KEY CODE 9



TOP KEY ENTRY

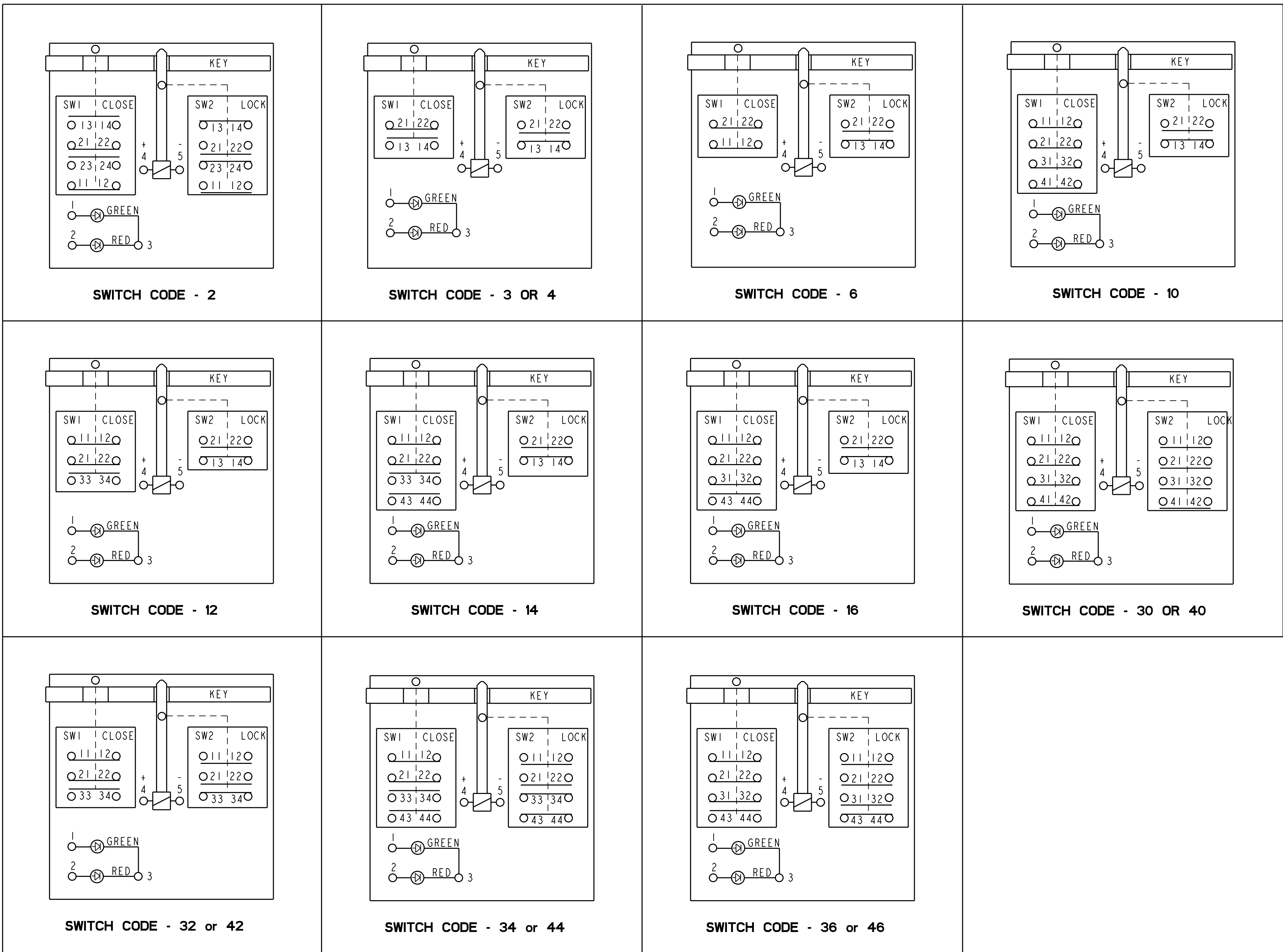
FRONT KEY ENTRY

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

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
ANGLES	2	2,2	2,22
	1/16, 04	0,01, 016	0,151, 006
	1/8, 05	0,1, 01	0,001, 001
	1/16, 04	0,01, 016	0,151, 006
	1/8, 05	0,1, 01	0,001, 001



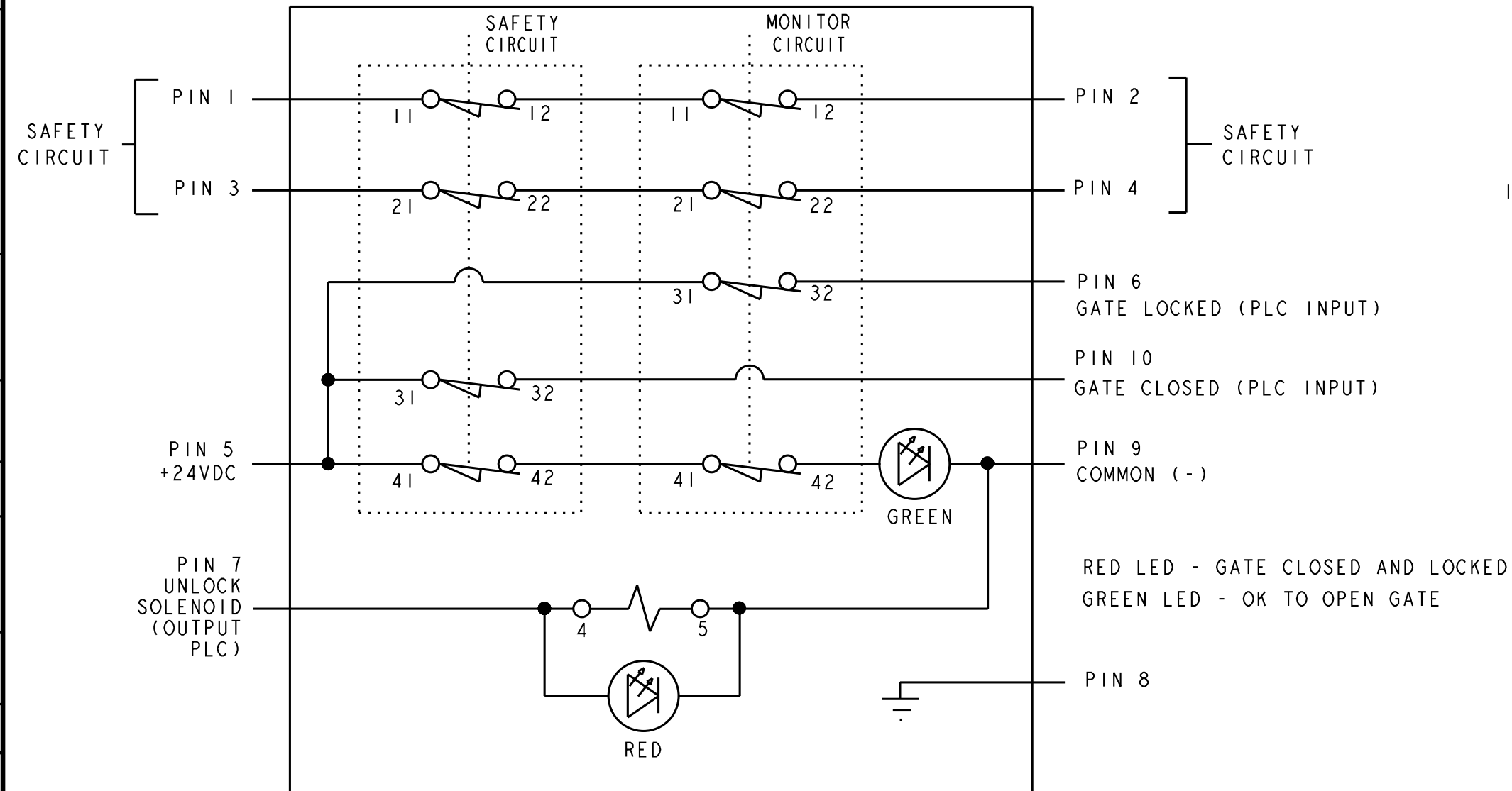




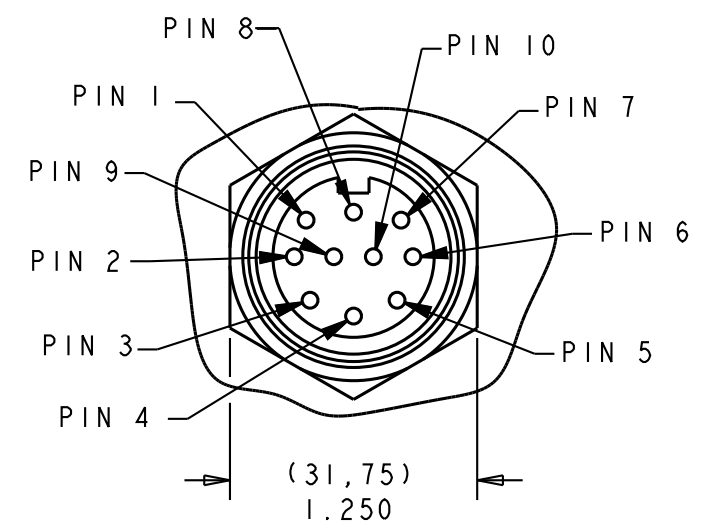
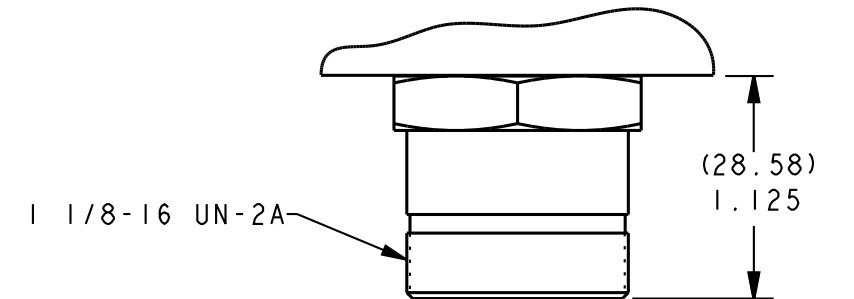
BODY / INDICATOR CODES - L OR R
 TYPE / OVER-RIDE CODES - S OR T
 DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED



MODIFICATION CODE: F05



SWITCH DIAGRAM STATE
IS CLOSED AND LOCKED

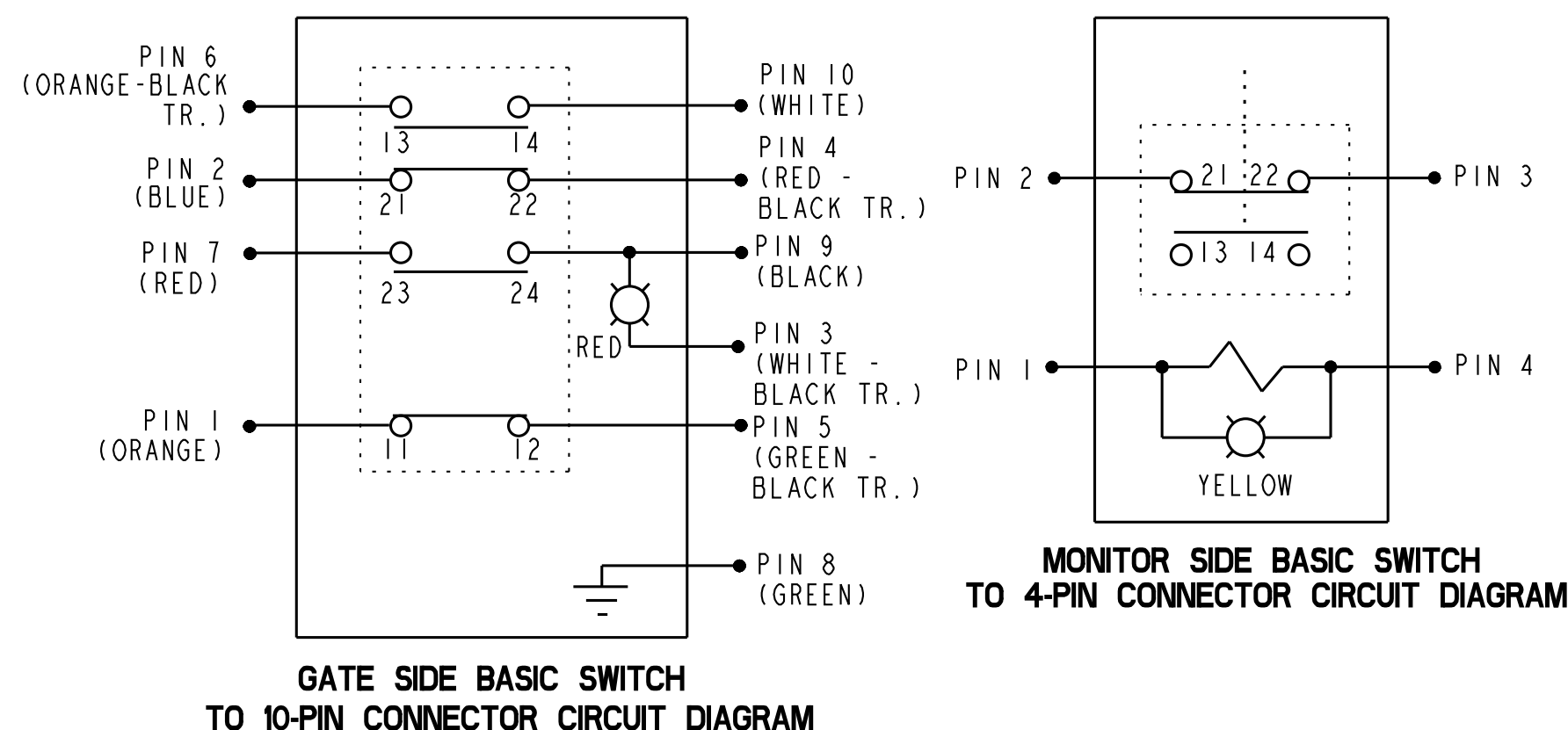


300V 7A
BRAD-HARRISON PART NO. 3R1006A21F010
OR EQUIVALENT

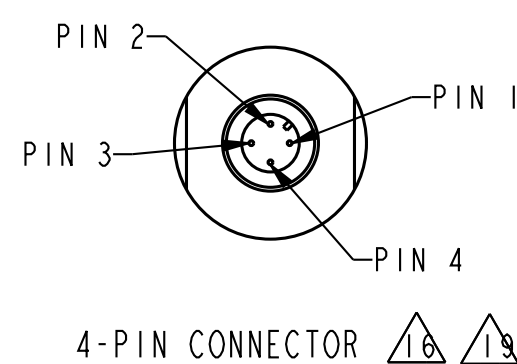
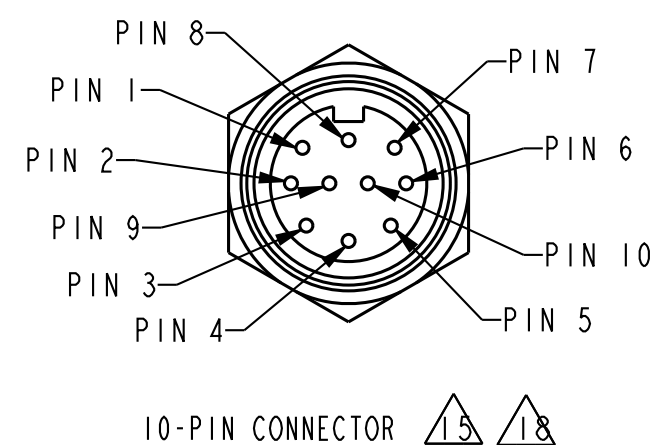
THIRD ANGLE PROJECTION			
			
SCALE		NTS	
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :			
DIM. mm	TOL mm / in	DIM. mm / in	TOL mm / in
NO PLACES X	1 / 0.0	X X	0.8 / 0.03
ONE PLACE X.X	0.4 / 0.016	X.XX	0.38 / 0.015
TWO PLACES 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	

MODIFICATION CODE: -FW

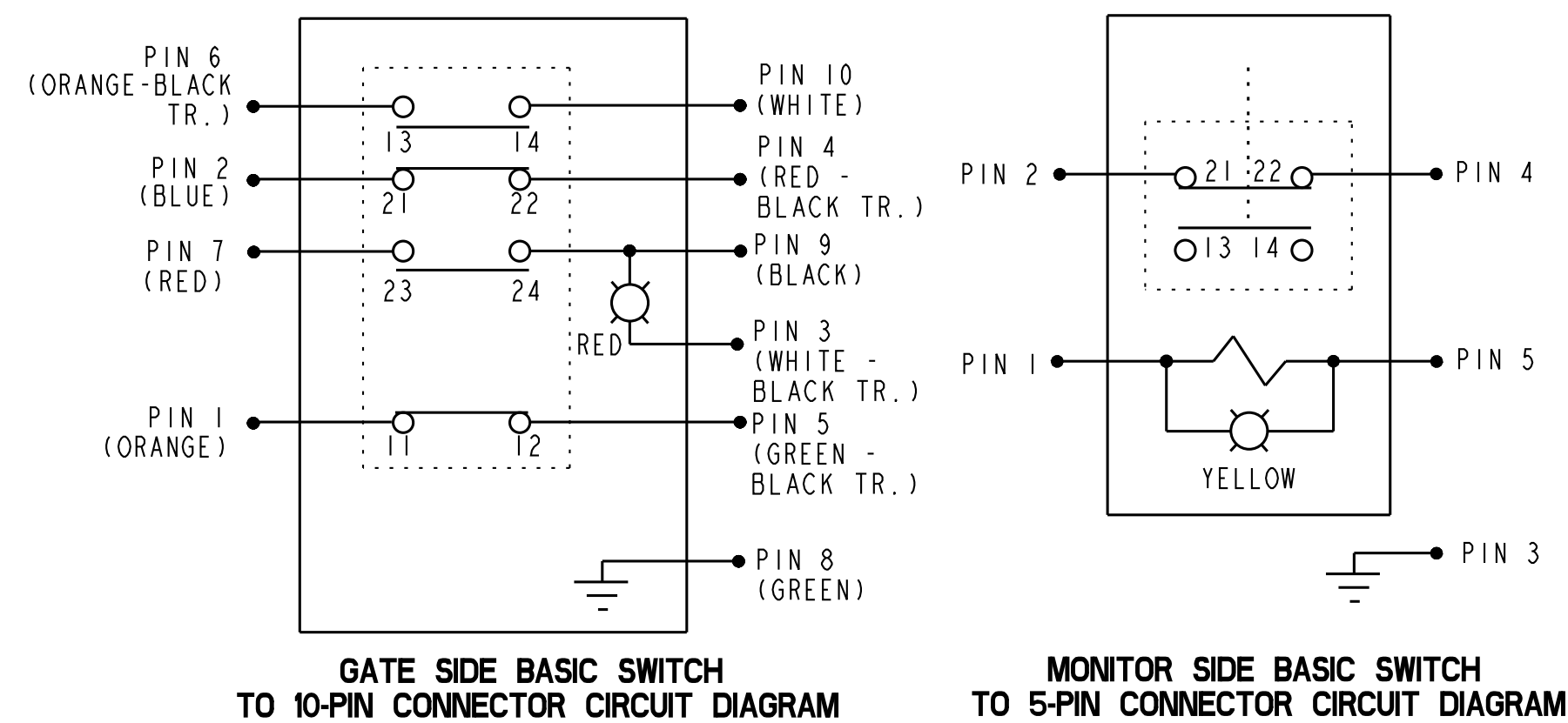
DC SOLENOID VOLTAGE DEVICES



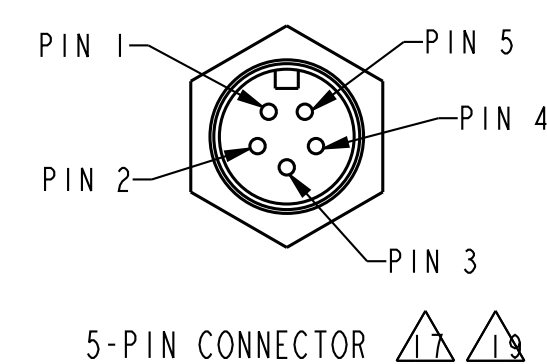
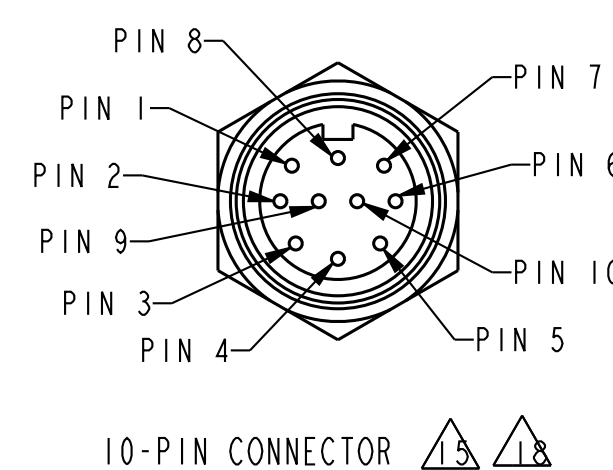
DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED



AC SOLENOID VOLTAGE DEVICES



DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED

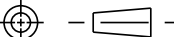


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MICRO SWITCH
a Honeywell Division

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

THIRD ANGLE PROJECTION																											
																											
SCALE NTS																											
DO NOT SCALE PRINT																											
TOLERANCES																											
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :																											
<table><thead><tr><th>DIM.</th><th>TOL.</th></tr><tr><th>mm</th><th>mm/in</th></tr></thead><tbody><tr><td>NO PLACES</td><td>1/2, 0.4</td></tr><tr><td>ONE PLACE</td><td>0.47, 0.16</td></tr><tr><td>TWO PLACES</td><td>0.157, 0.06</td></tr><tr><td>THREE PLACES</td><td></td></tr><tr><td>ANGLES</td><td></td></tr></tbody></table>		DIM.	TOL.	mm	mm/in	NO PLACES	1/2, 0.4	ONE PLACE	0.47, 0.16	TWO PLACES	0.157, 0.06	THREE PLACES		ANGLES		<table><thead><tr><th>DIM.</th><th>TOL.</th></tr><tr><th>in</th><th>mm/in</th></tr></thead><tbody><tr><td>2, X</td><td>0.8/0.3</td></tr><tr><td>3, .XX</td><td>0.38/0.15</td></tr><tr><td>4, .XXX</td><td>0.13/0.05</td></tr></tbody></table>		DIM.	TOL.	in	mm/in	2, X	0.8/0.3	3, .XX	0.38/0.15	4, .XXX	0.13/0.05
DIM.	TOL.																										
mm	mm/in																										
NO PLACES	1/2, 0.4																										
ONE PLACE	0.47, 0.16																										
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THREE PLACES																											
ANGLES																											
DIM.	TOL.																										
in	mm/in																										
2, X	0.8/0.3																										
3, .XX	0.38/0.15																										
4, .XXX	0.13/0.05																										
SI METRIC		US CUSTOMARY																									
DESIGN UNITS 																											
WEIGHT 2,3 kg / 5 LB MAX																											

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929

PTC/CAD 3D
DRAWN
GRT 18JAN00
CHECK
SAV
18JAN00
CHECK
CMH 10NOV11
CHECK
04FEB09
PRG 0065737
R 0083578
31MAY10
P 0065737
SSR 04FEB09
N 0047583
ISSUE 5254
DRAWING NUMBER
GK SERIES CHART 4
PAGE 15 OF 16
RELEASE NO. PR-24370
REPLACES

