

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						

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FED. MFG. CODE 91929

a Honeywell Division

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

THIRD ANGLE PROJECTION

SCALE NTS

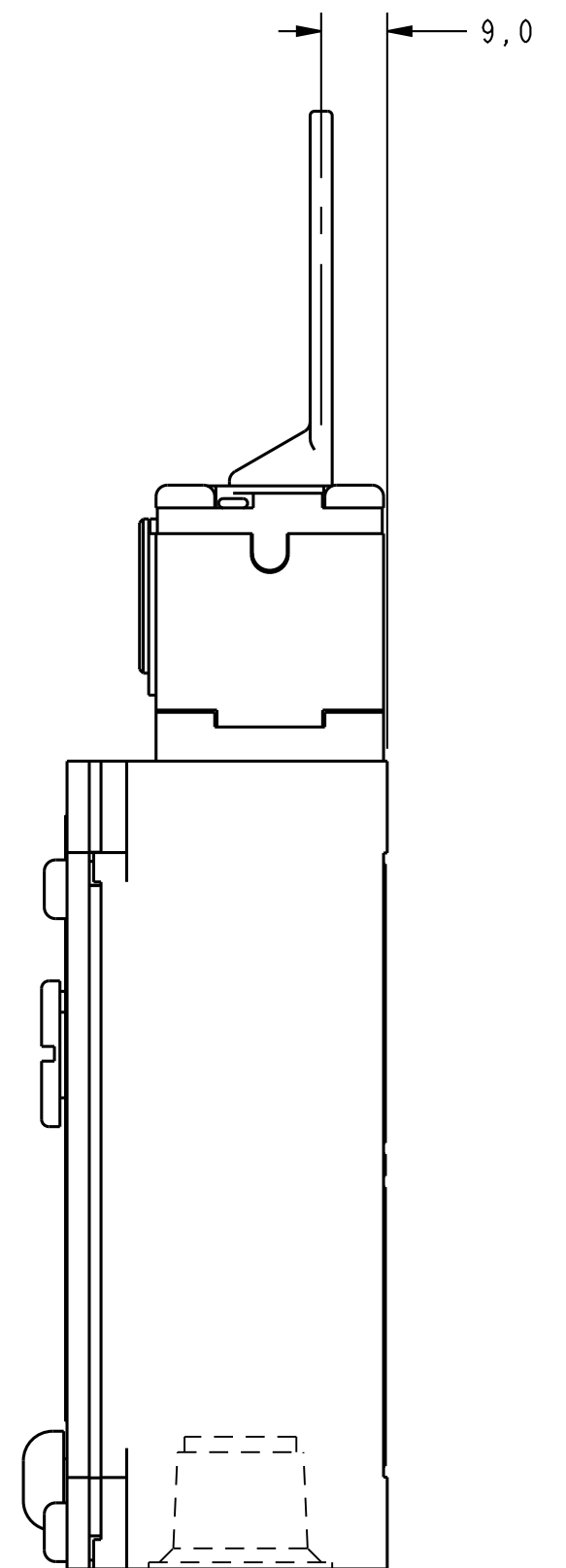
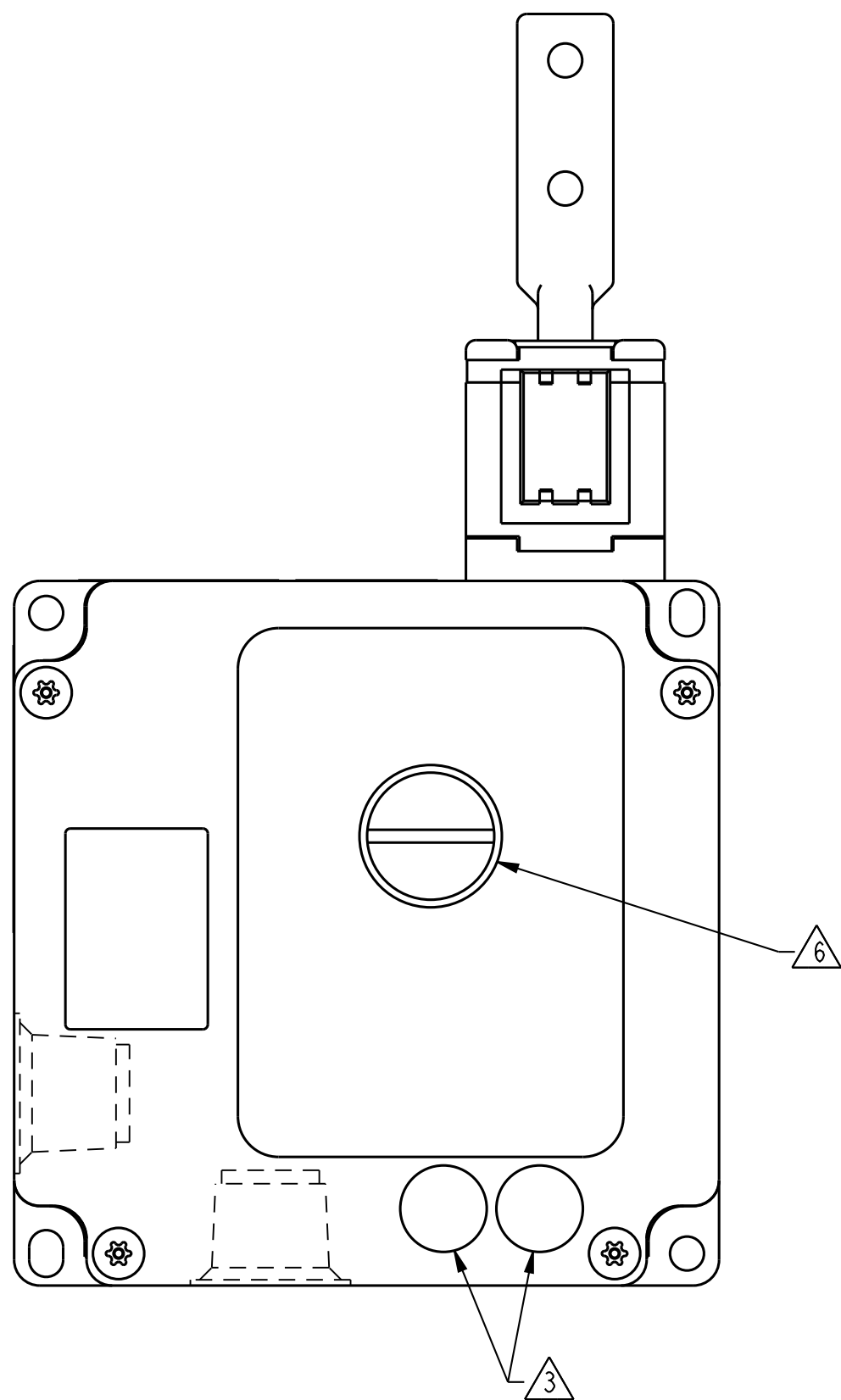
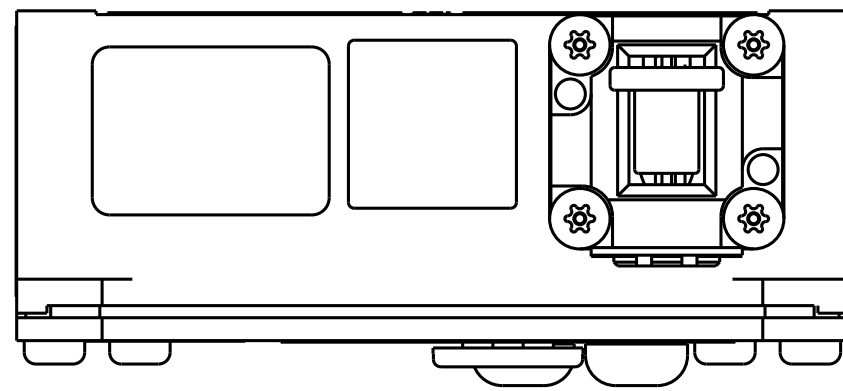
DO NOT SCALE PRINT

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

NO PLACES	ONE PLACE	TWO PLACES	THREE PLACES	ANGLES
INCH	MM	INCH	MM	INCH
1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000

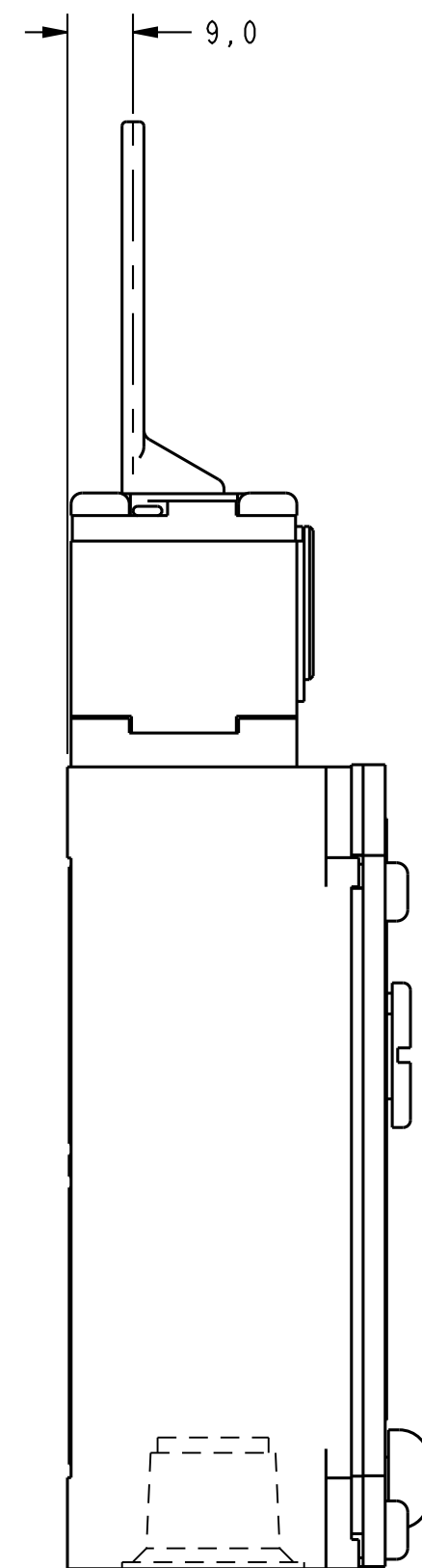
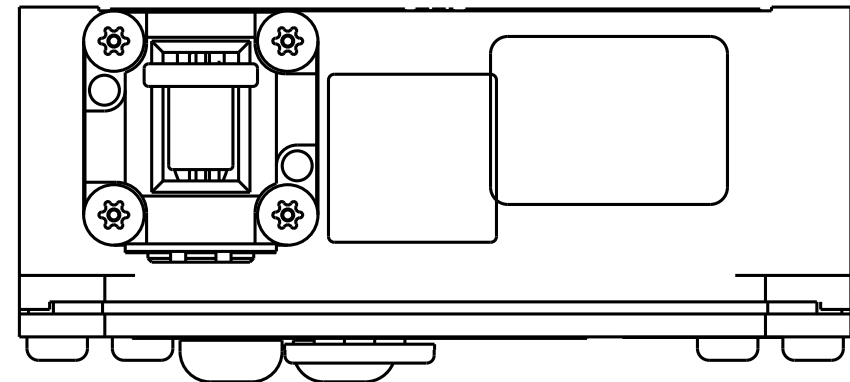
DESIGN UNITS ☒ SI METRIC ☐ US CUSTOMARY

WEIGHT 1,5 kg / 3.3 LB



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.			<table border="1"> <tr> <td>NO PLACES</td> <td>1</td> <td>1.04</td> <td>1.1</td> <td>8.87.03</td> </tr> <tr> <td>ONE PLACE</td> <td>2.1</td> <td>0.47.016</td> <td>2.1</td> <td>3.86.015</td> </tr> <tr> <td>TWO PLACES</td> <td>3.1</td> <td>1.17.004</td> <td>3.1</td> <td>1.17.004</td> </tr> </table>		NO PLACES	1	1.04	1.1	8.87.03	ONE PLACE	2.1	0.47.016	2.1	3.86.015	TWO PLACES	3.1	1.17.004	3.1	1.17.004
NO PLACES	1	1.04	1.1	8.87.03															
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FED. MFG. CODE 91929	CATALOG LISTING		<table border="1"> <tr> <td>DESIGN UNITS</td> <td> <table border="1"> <tr> <td>SI METRIC</td> <td>☒</td> </tr> <tr> <td>US CUSTOMARY</td> <td>☐</td> </tr> </table> </td> </tr> </table>		DESIGN UNITS	<table border="1"> <tr> <td>SI METRIC</td> <td>☒</td> </tr> <tr> <td>US CUSTOMARY</td> <td>☐</td> </tr> </table>	SI METRIC	☒	US CUSTOMARY	☐									
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US CUSTOMARY	☐																		
MICRO SWITCH a Honeywell Division	SWITCH - DOOR INTERLOCK	GK SERIES CHART 4	WEIGHT 1,5 kg / 3.3 LB																



BODY / INDICATOR CODES L OR F

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MICRO SWITCH

a Honeywell Division

SWITCH - DOOR INTERLOCK

CATALOG LISTING

GK SERIES CHART 4

DIM.	TOL.	DIM.	TOL.
NO PLACES	0.1	0.1	0.001
ONE PLACE	0.001	0.1	0.001
TWO PLACES	0.001	0.1	0.001
THREE PLACES	0.001	0.1	0.001
ANGLES	0.001	0.1	0.001

SI METRIC ☒

DESIGN UNITS ☒

US CUSTOMARY ☐

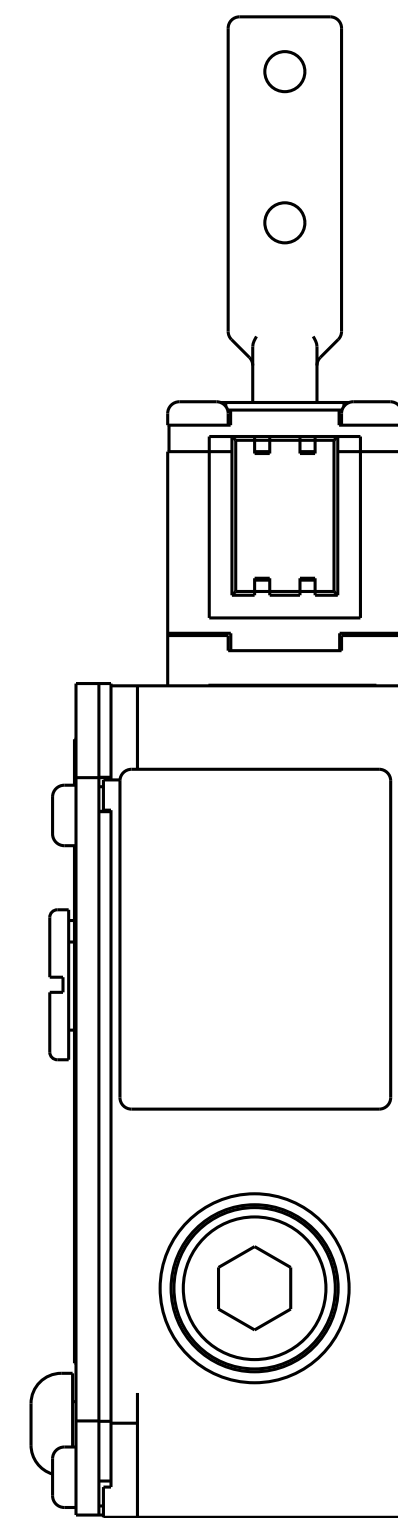
WEIGHT 1.5 lb / 2.2 lb



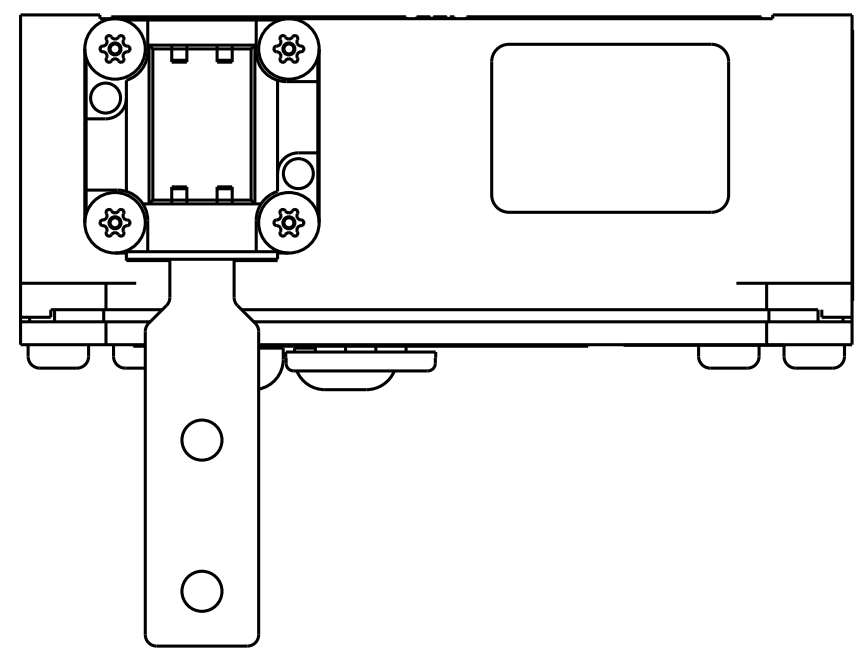
HEAD CODE L



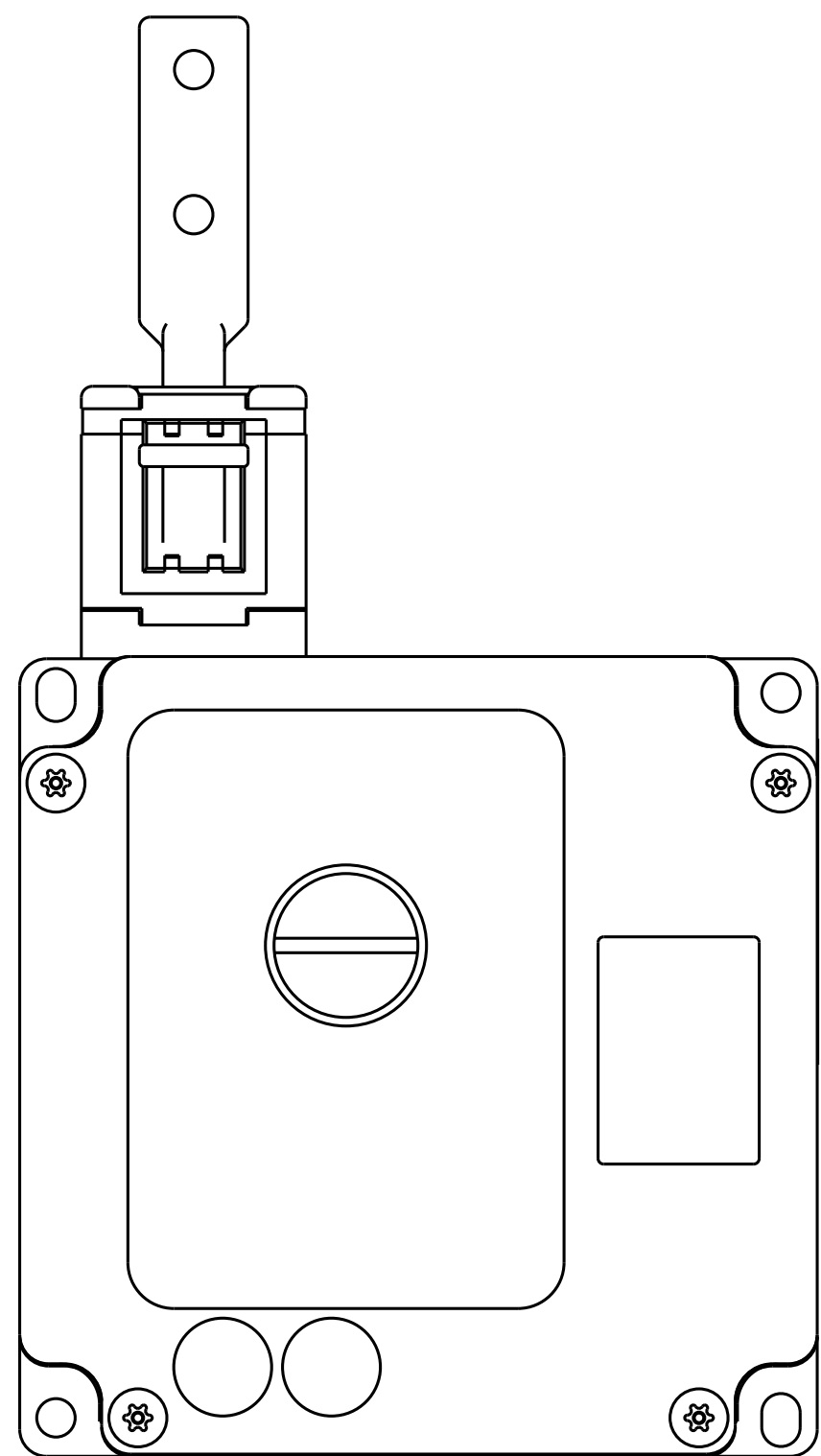
HEAD CODE M



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FED. MFG. CODE 91929		CATALOG LISTING	
 MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK	
		GK SERIES CHART 4	
		NO PLACES 2 0.47/0.016 ONE PLACE 2.5 0.47/0.016 TWO PLACES 3.1 0.47/0.016 THREE PLACES 3.1 0.47/0.016 ANGLES 3.1 0.47/0.016	
		SI METRIC ☒ US CUSTOMARY ☐	
		DESIGN UNITS	
		WEIGHT 1.5 kg / 3.3 LB	

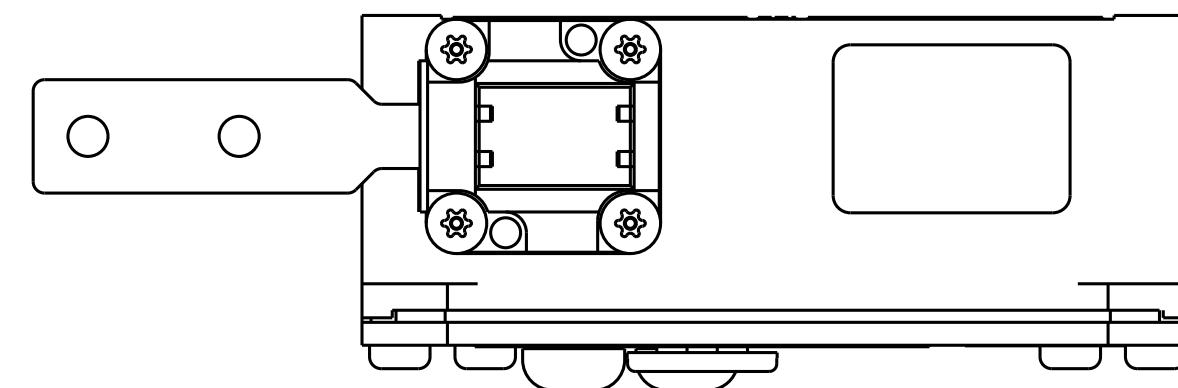
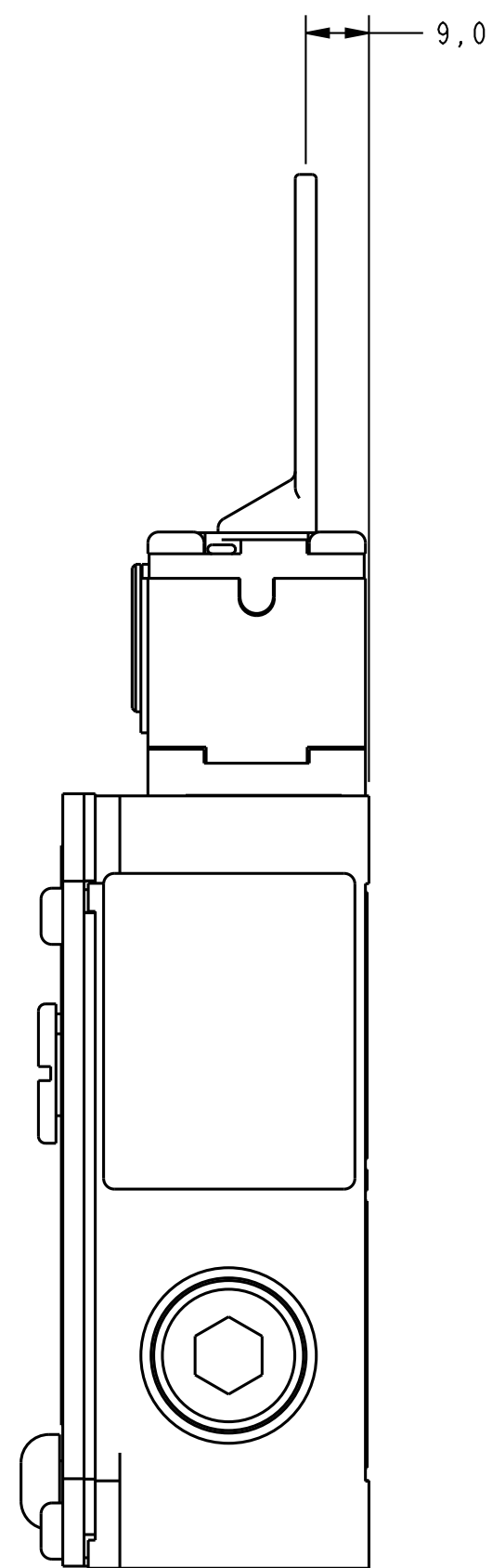


WITH KEY IN FRONT ENTRY POSITION

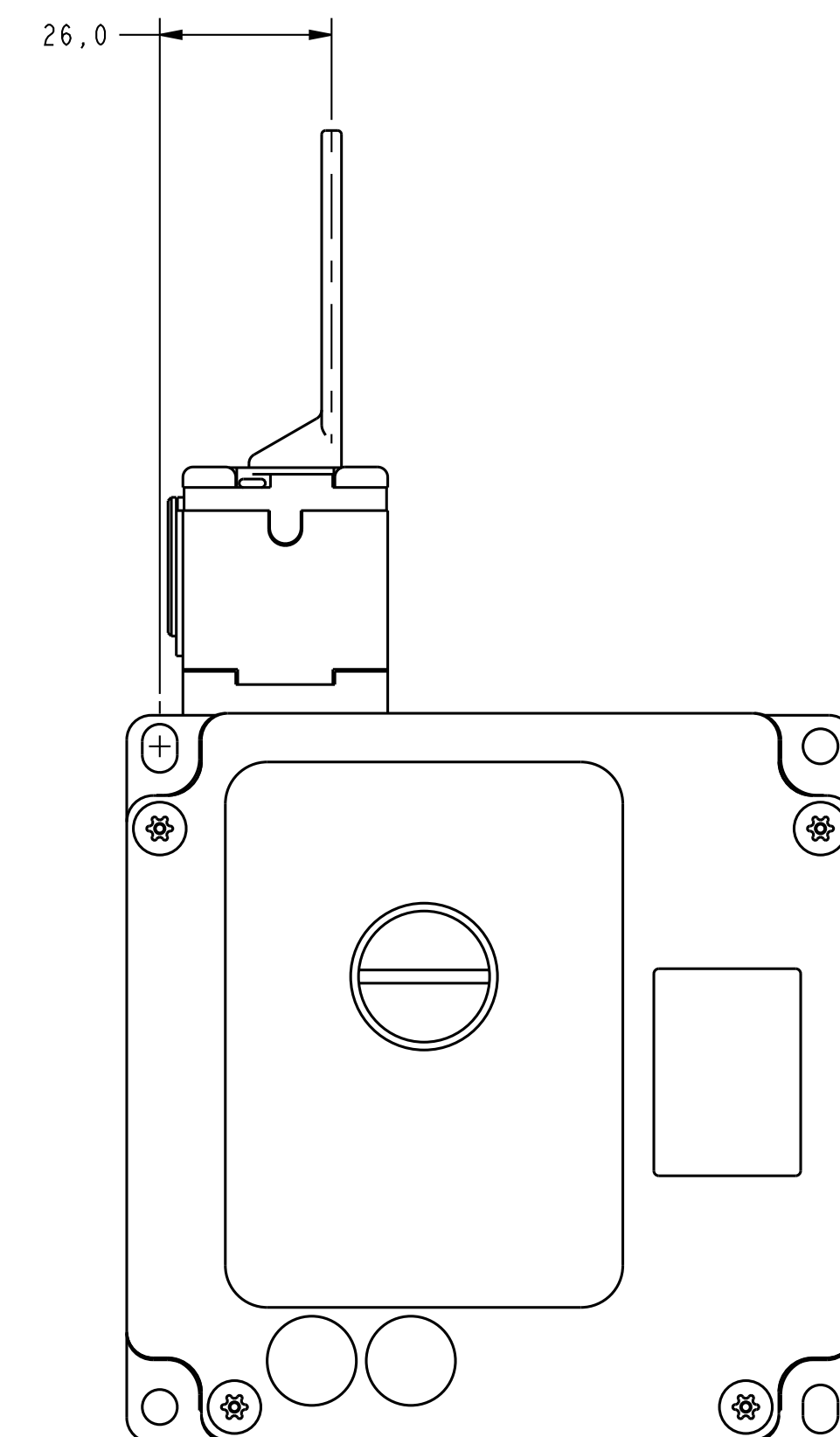


WITH KEY IN TOP ENTRY POSITION

HEAD CODE N



WITH KEY IN FRONT ENTRY POSITION



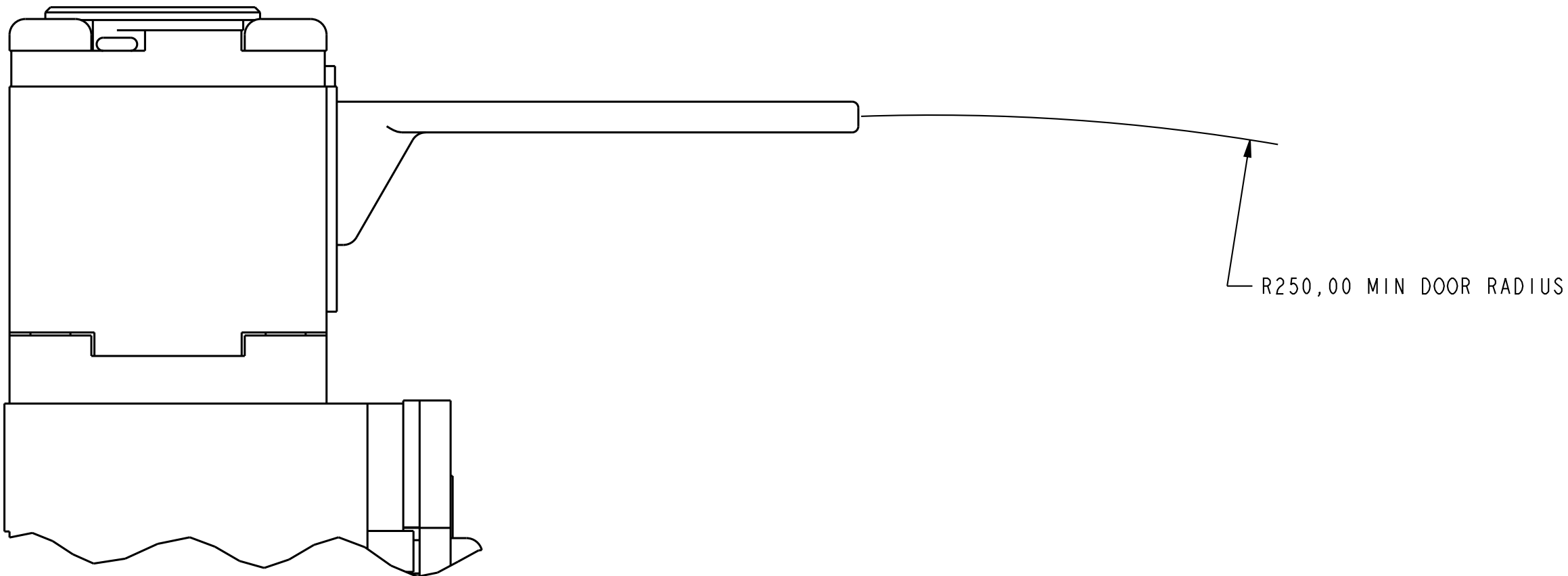
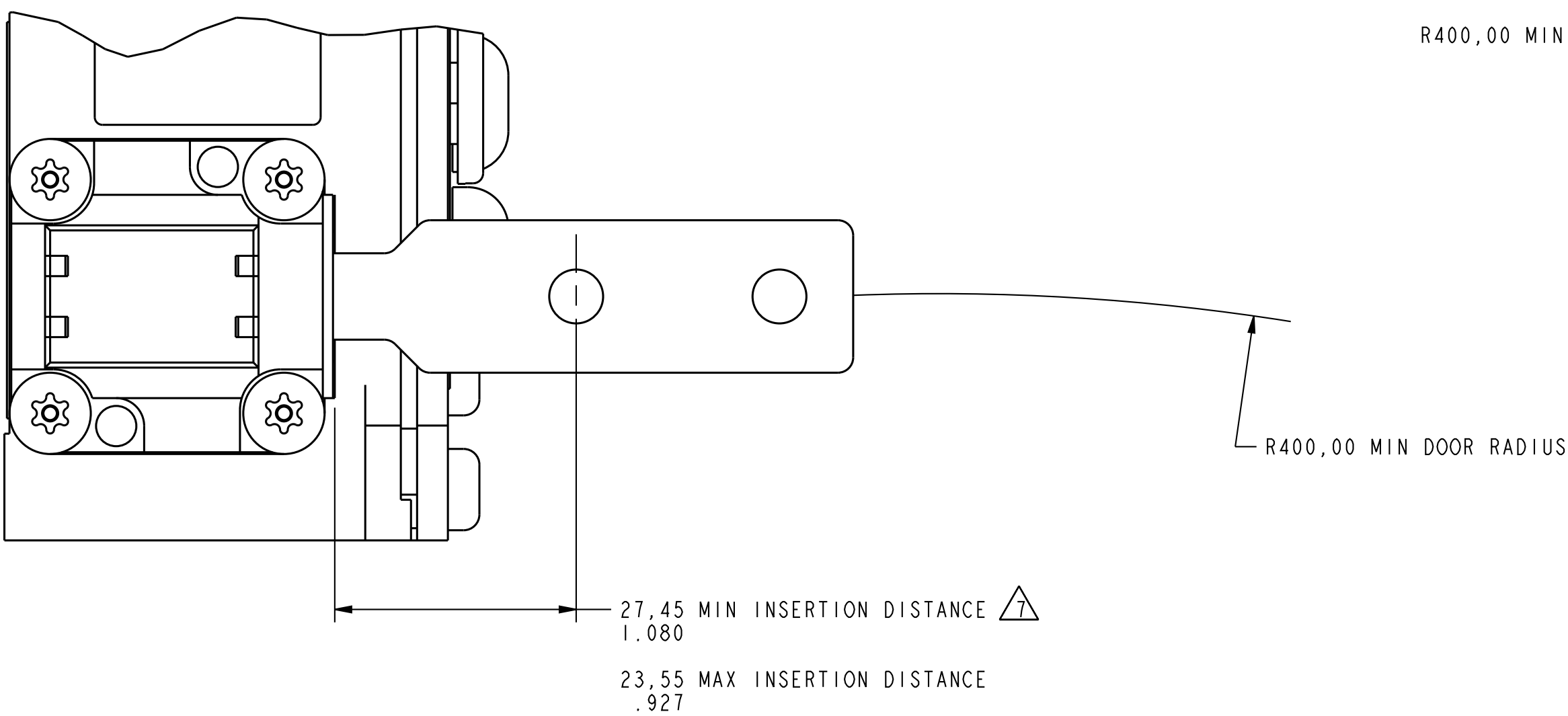
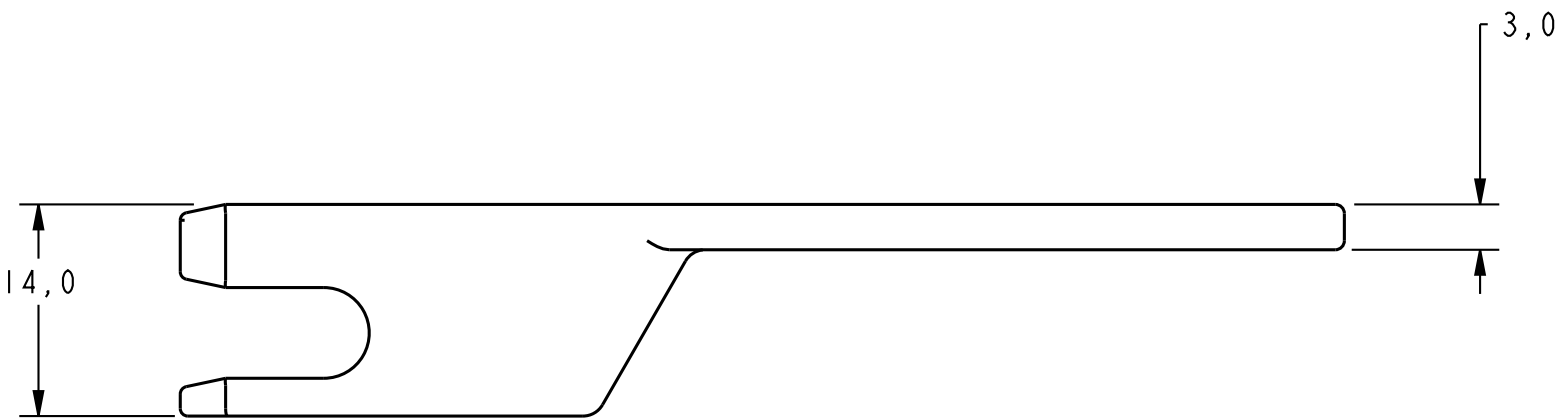
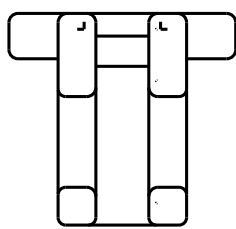
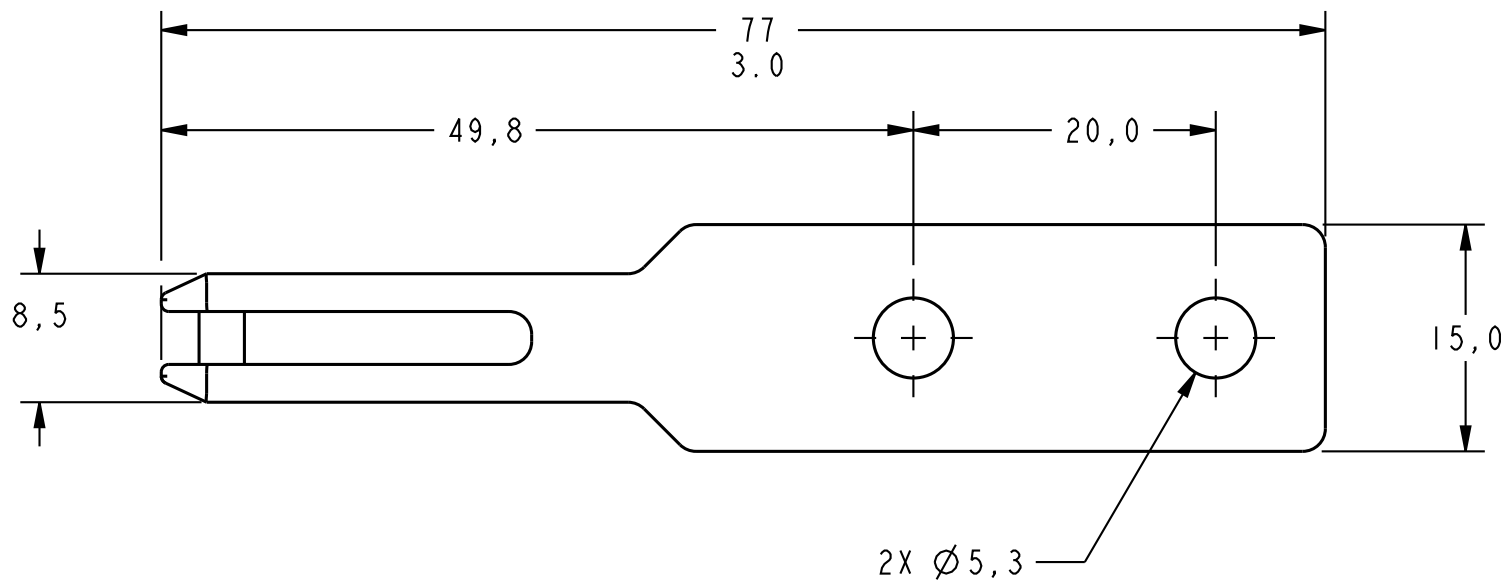
WITH KEY IN TOP ENTRY POSITION

HEAD CODE P

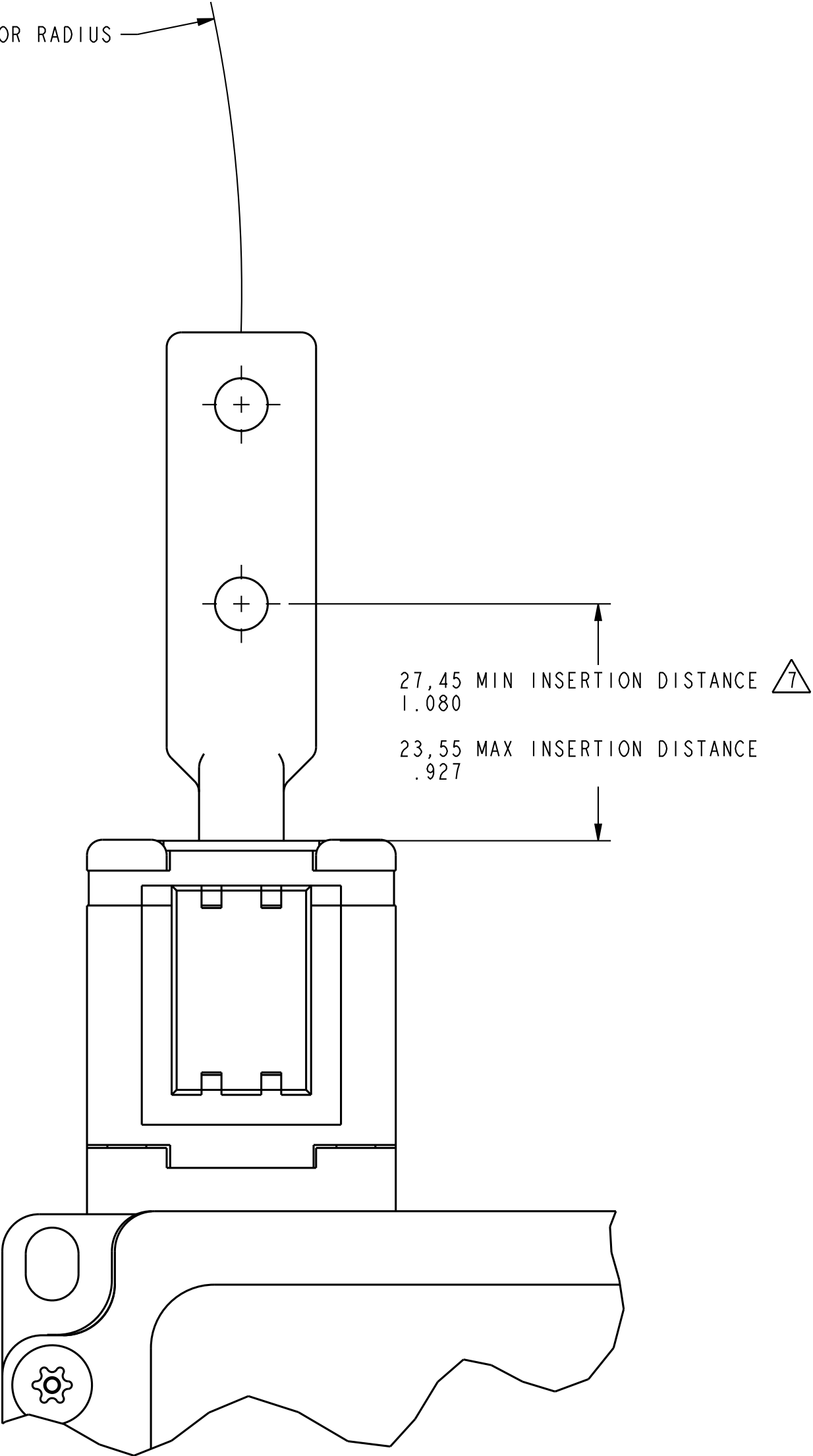
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FED. MFG. CODE 91929	CATALOG LISTING																														
MICRO SWITCH a Honeywell Division	SWITCH - DOOR INTERLOCK	GK SERIES CHART 4																													
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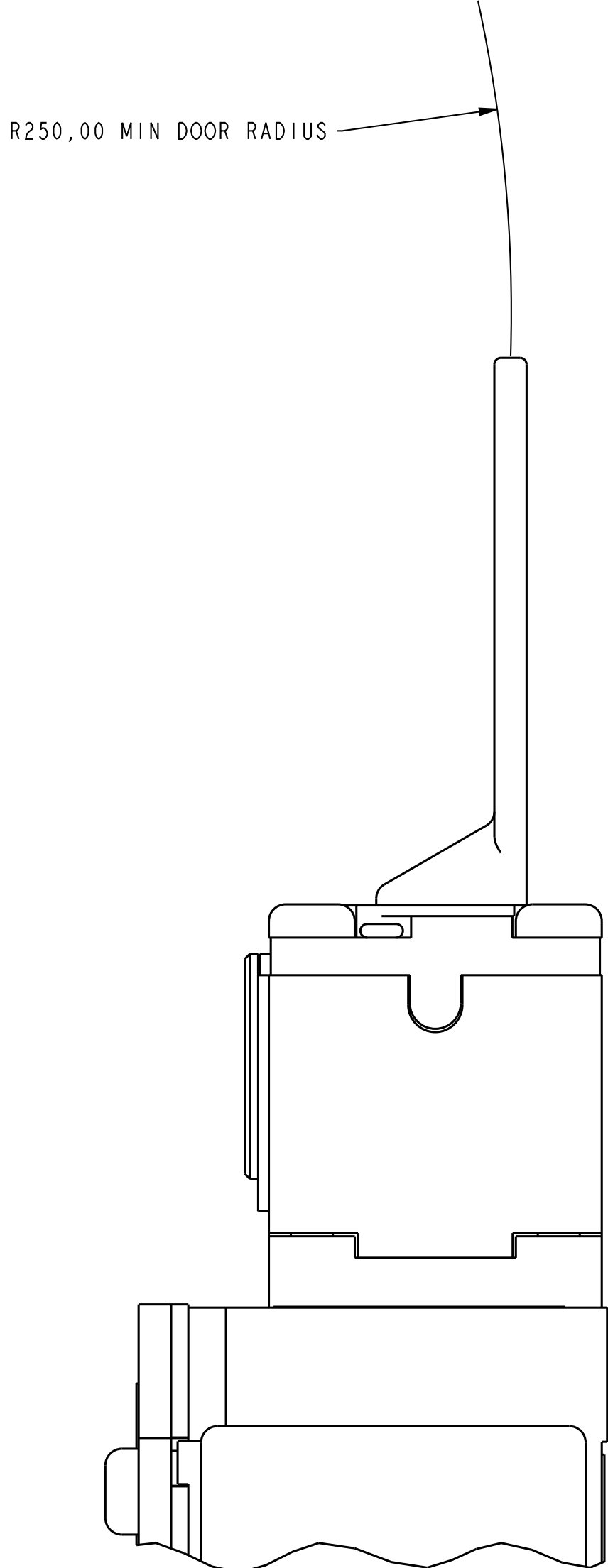
KEY CODE 6



FRONT KEY ENTRY



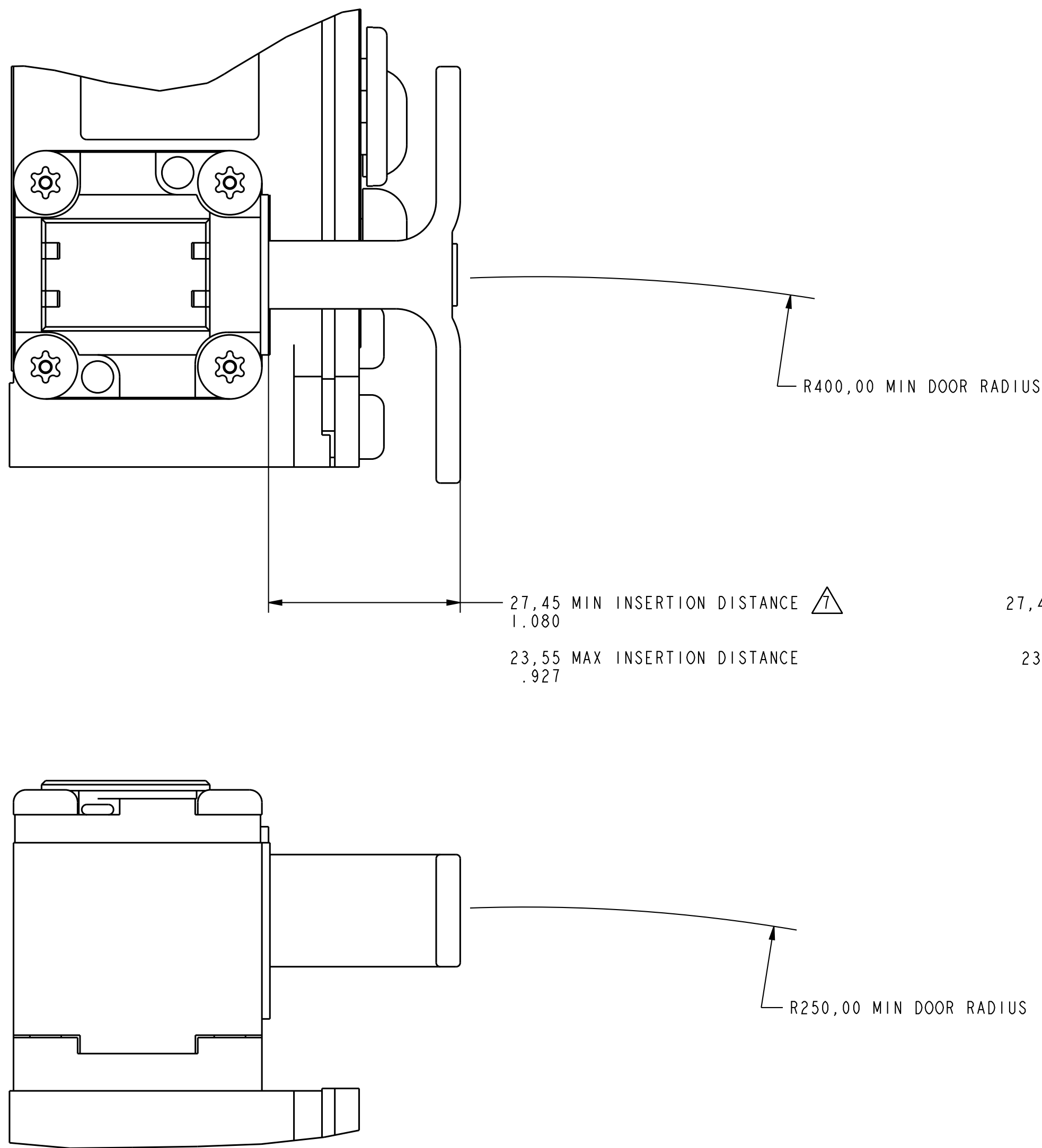
TOP KEY ENTRY



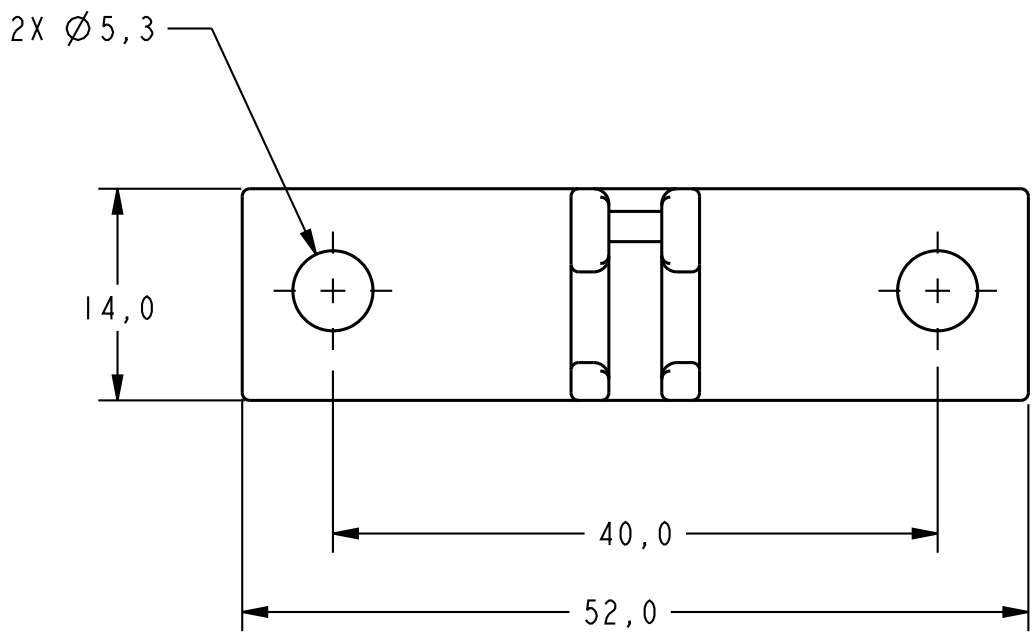
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FED. MFG. CODE 91929		CATALOG LISTING	
MICRO SWITCH a Honeywell Division		SWITCH - DOOR INTERLOCK	
DESIGN UNITS ☒ SI METRIC		GK SERIES CHART 4	
WEIGHT 1.5 KG / 3.3 LB		US CUSTOMARY ☐	

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	2	1/16	2.2
ONE PLACE	1/16	0.0156	0.39
TWO PLACES	1/32	0.0312	0.78
THREE PLACES	1/64	0.0156	0.39
ANGLES	1/16	0.0156	0.39

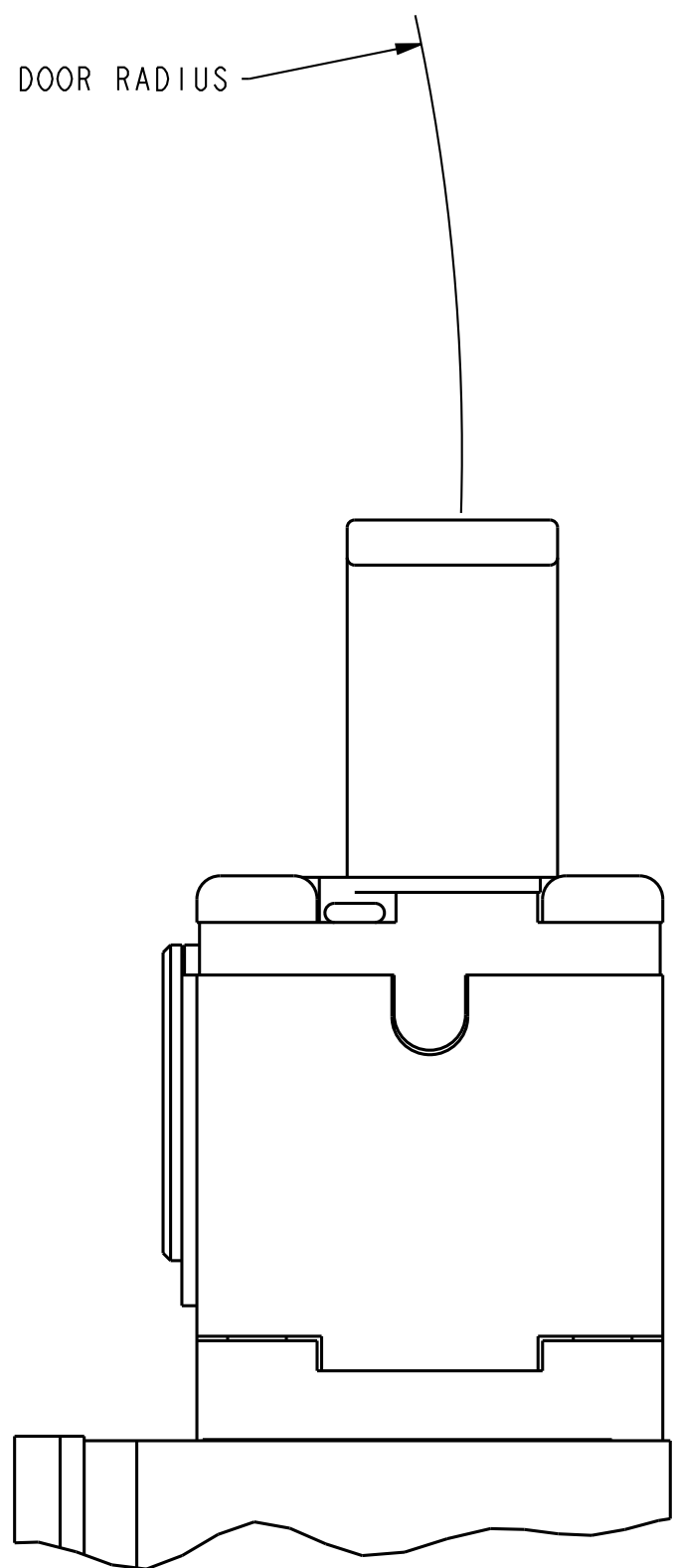
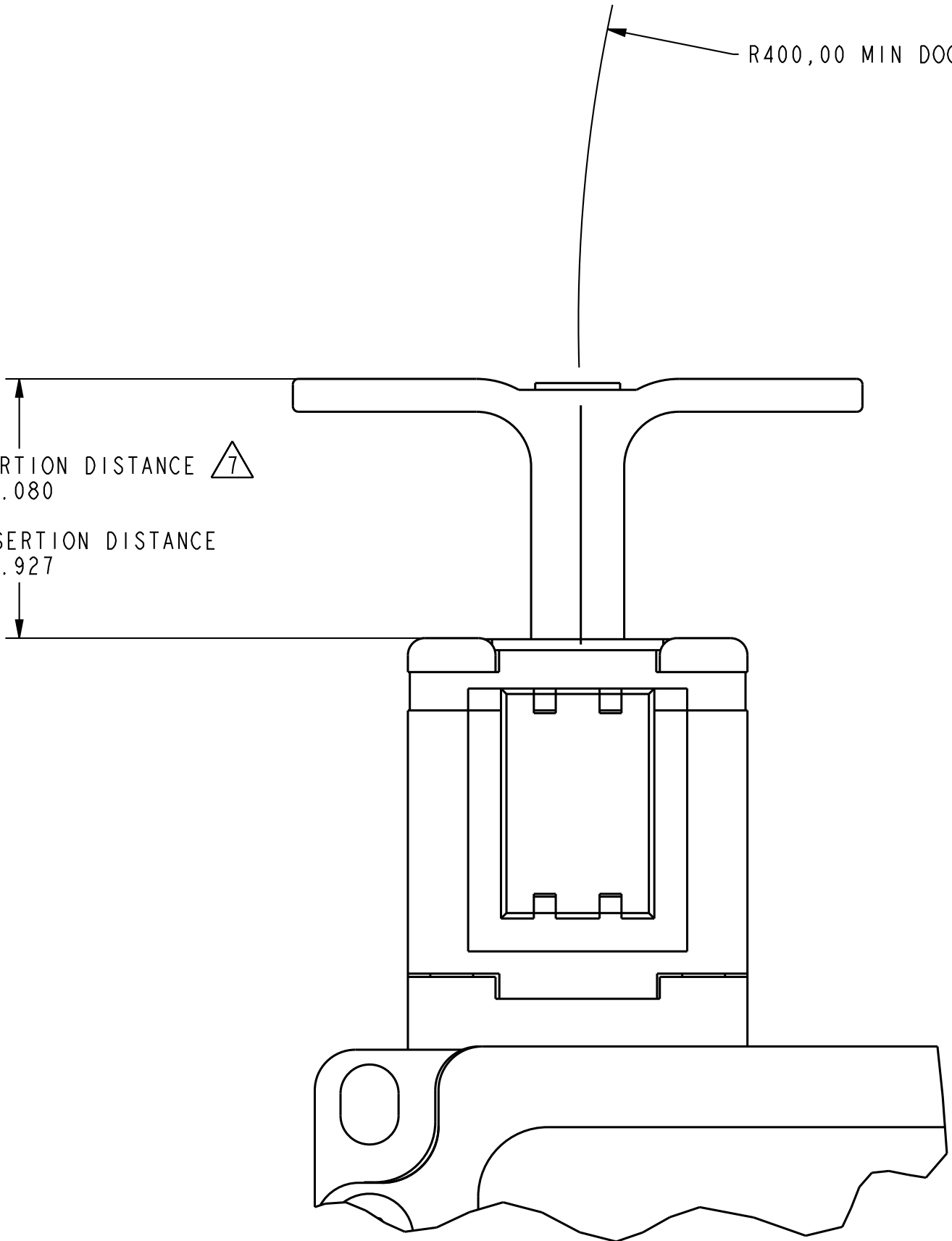
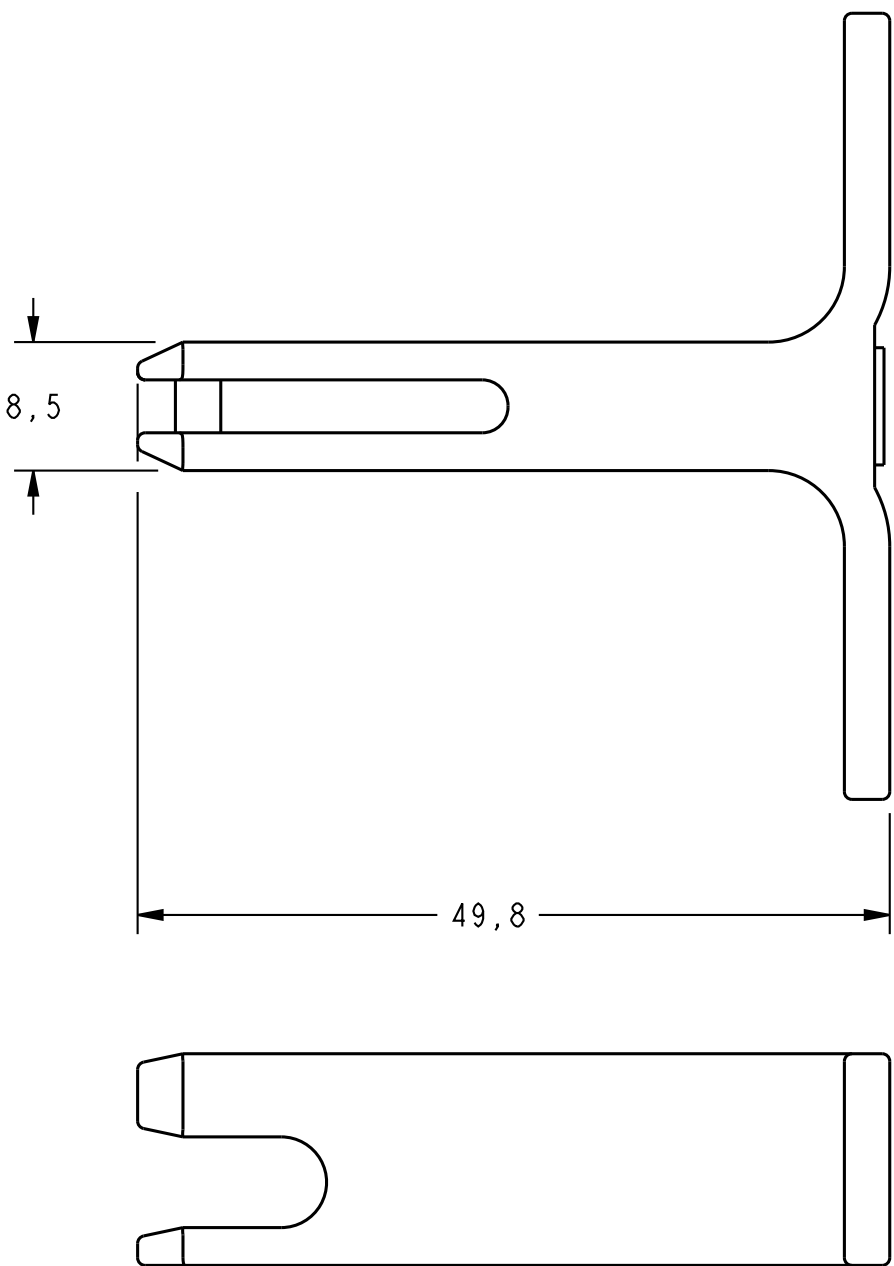
KEY CODE 7



FRONT KEY ENTRY



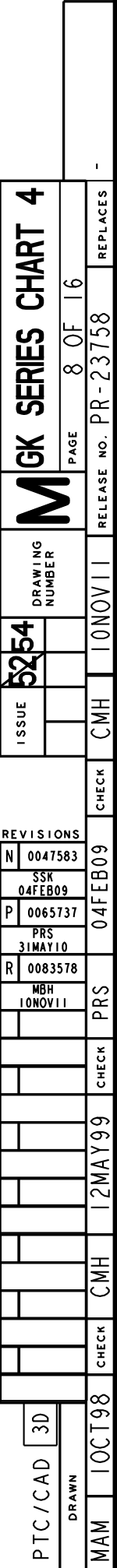
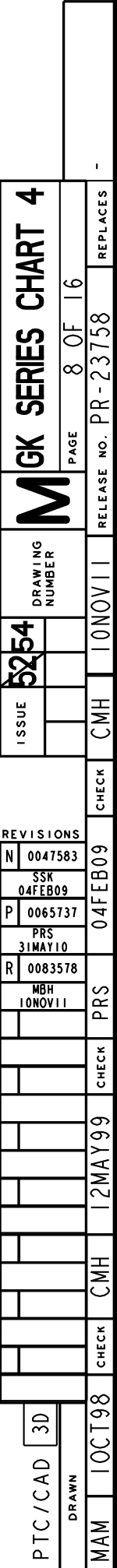
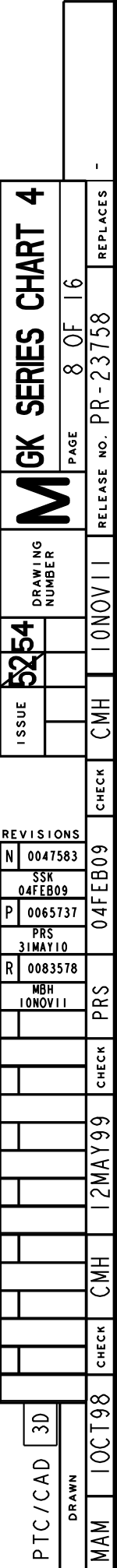
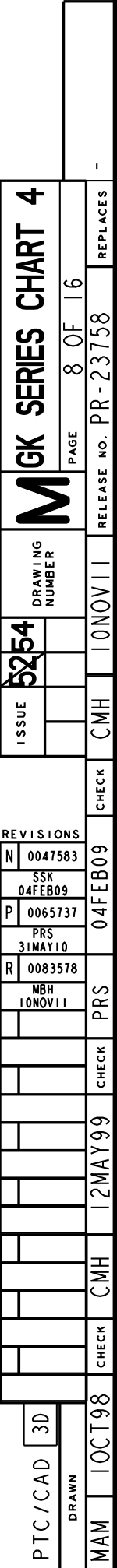
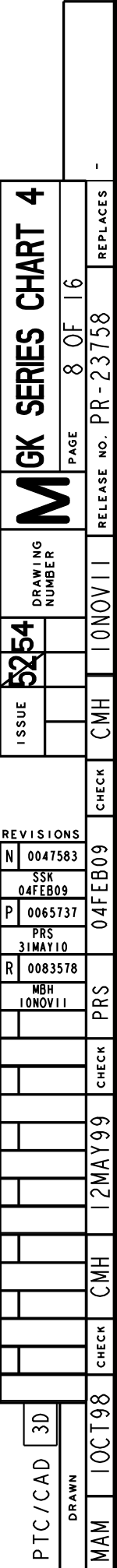
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THIRD ANGLE PROJECTION			
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NO PLACES	2	1/16	2.2
ONE PLACE	1/16	0.0156	0.39
TWO PLACES	1/32	0.0031	0.08
THREE PLACES	1/64	0.0016	0.04
DESIGN UNITS	SI METRIC	US CUSTOMARY	
WEIGHT	1,5 KG	3,3 LB	

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

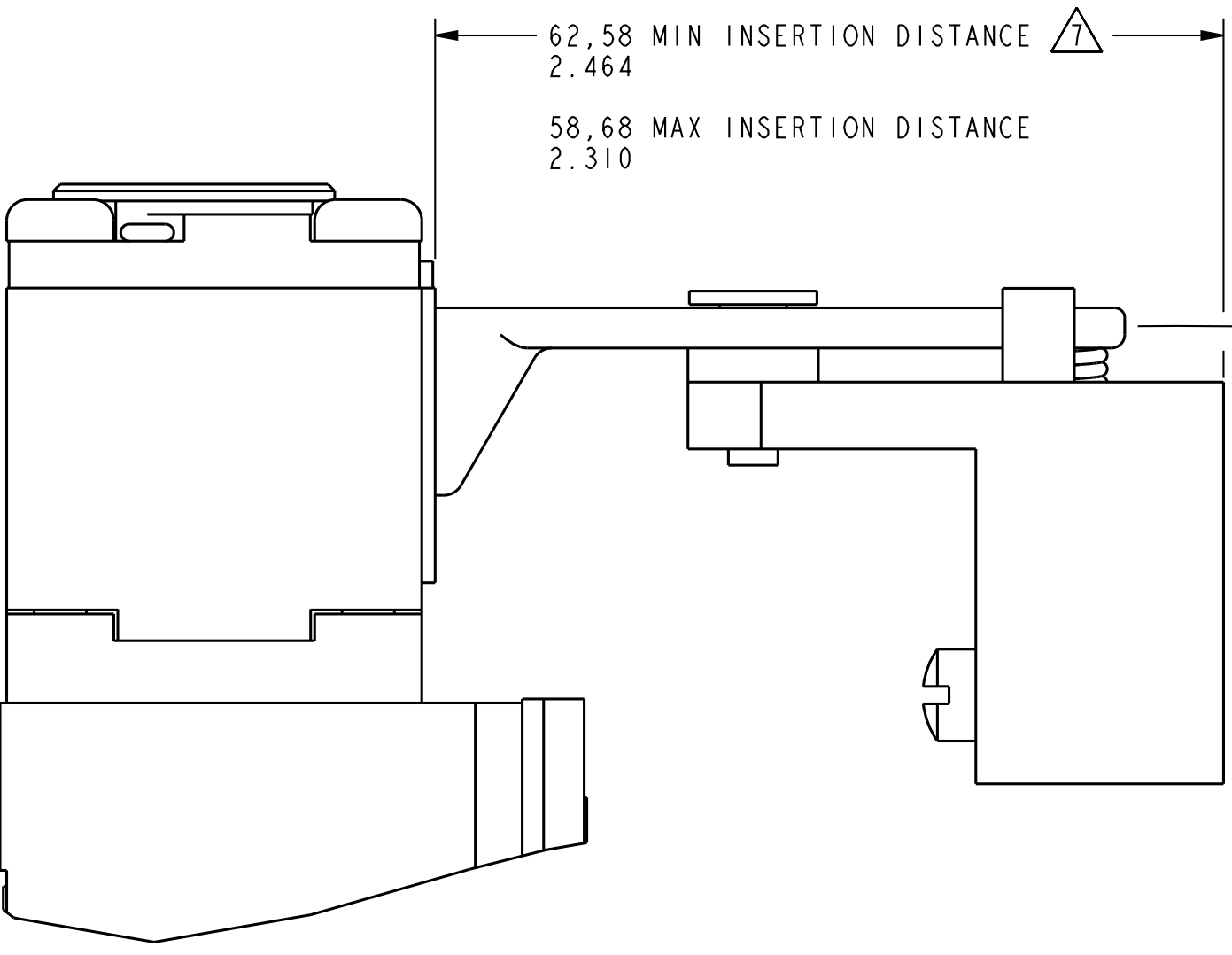
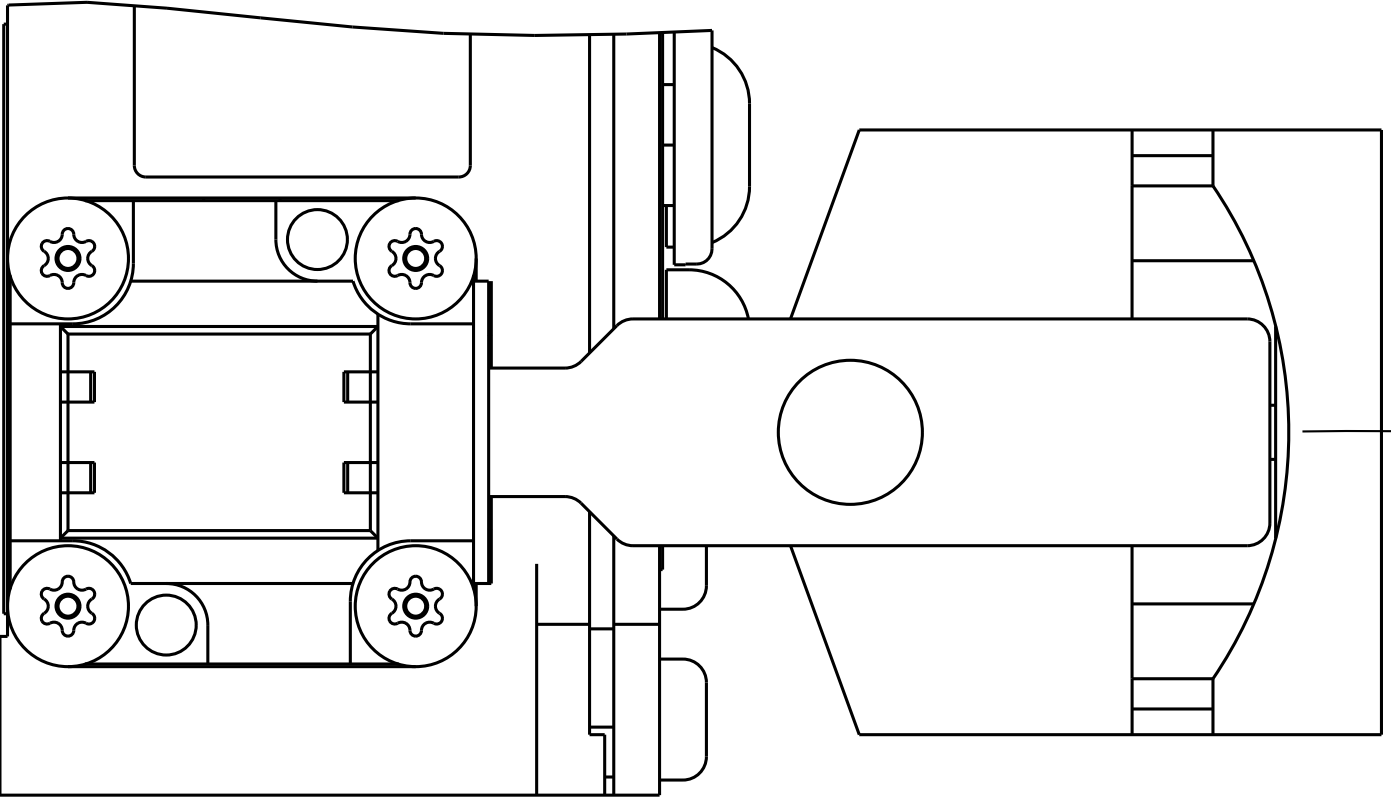
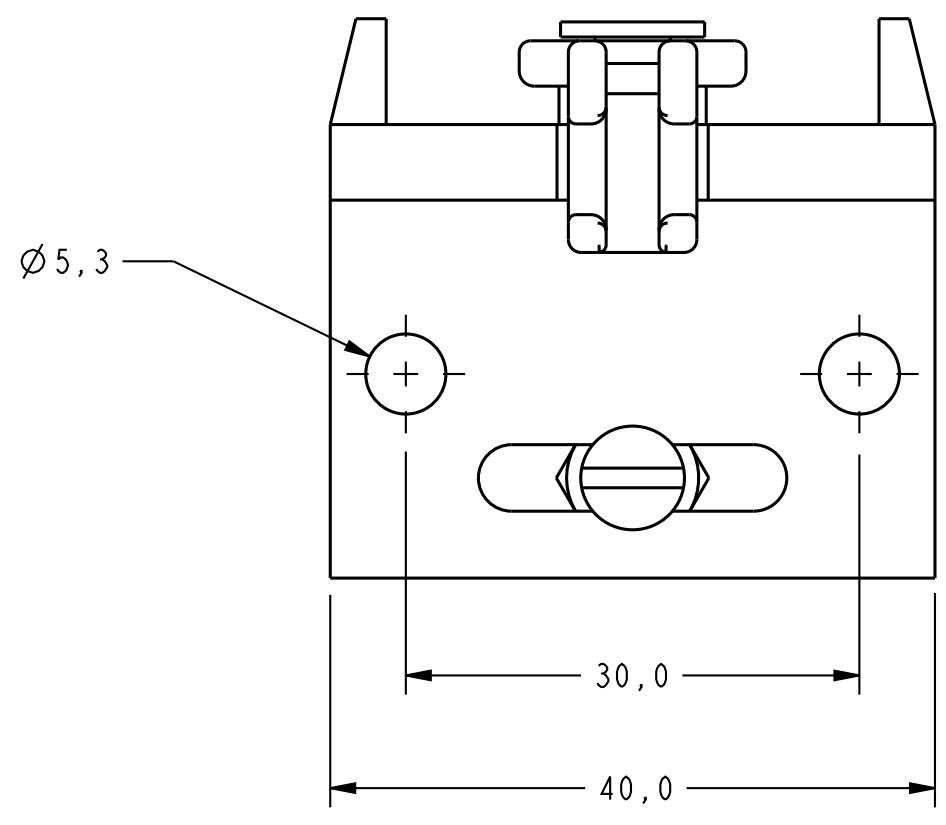
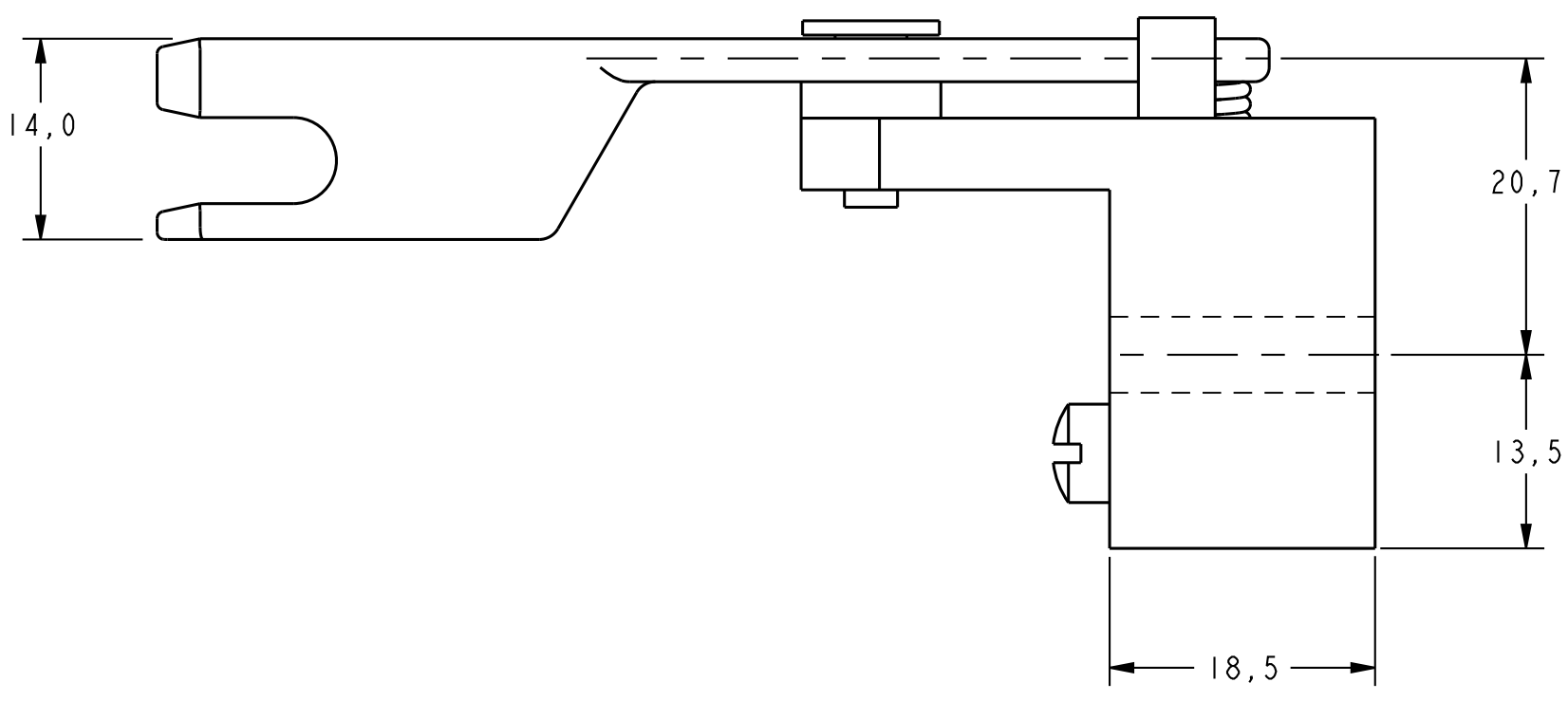
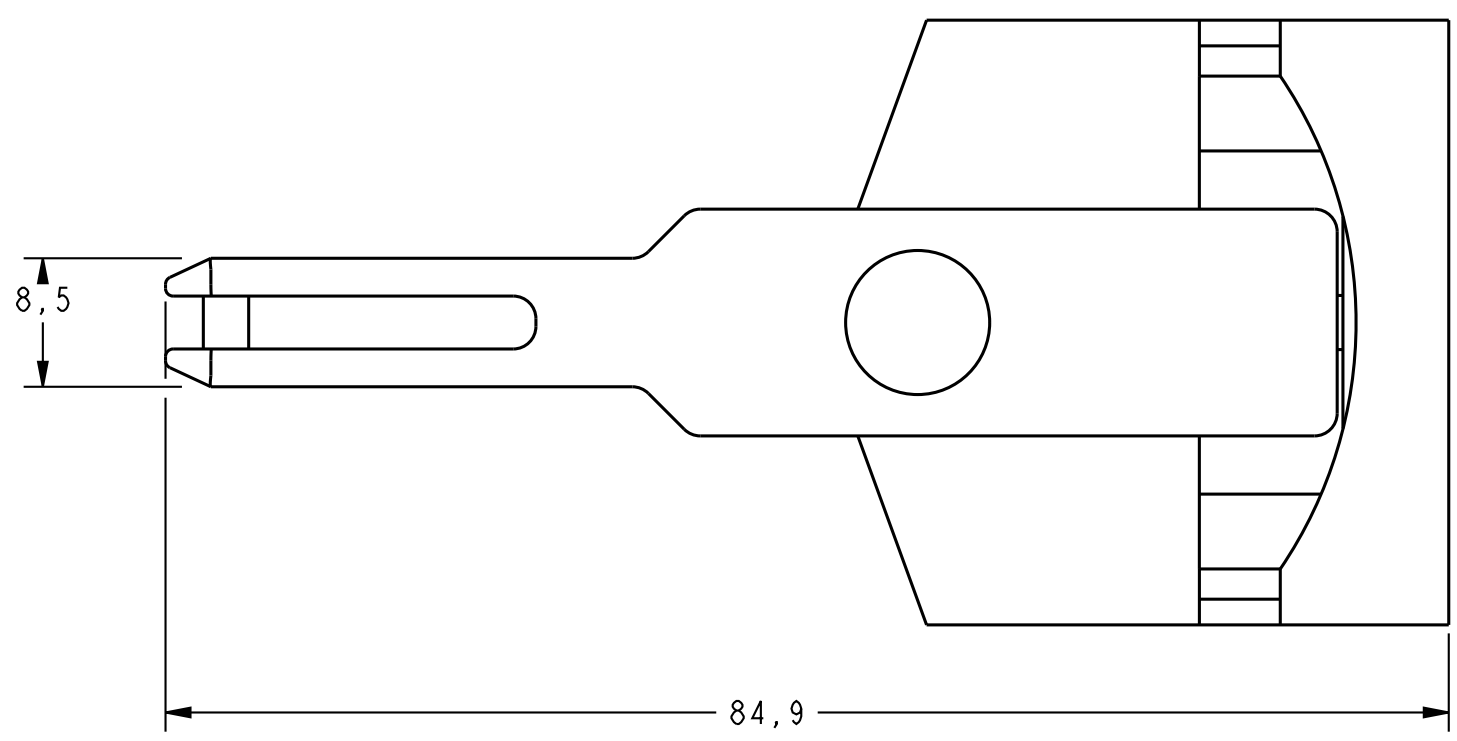
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FED. MFG. CODE 91929		SWITCH - DOOR INTERLOCK	
MICRO SWITCH a Honeywell Division		GK SERIES CHART 4	



PTC/CAD	30	DRAWN										
MAN	1 OCT 98	CHECK	CWH	2 MAY 99	CHECK	PRS	04 FEB 09	CHECK	CWH	1 NOV 11	RELEASE NO. PR-23758	REPLACES -
REVISIONS N 0047583 SSK TAFFEB09 P 0056737 PRS RIMAT10 R 0003578 NHS 1 NOV 11 ISSUE 5254 DRAWING NUMBER MKG SERIES CHART 4 PAGE 8 OF 16												

PTC/CAD		30	DRAWN									
MAN	1 OCT 98	CHECK	CWH	2 MAY 99	CHECK	PRS	04 FEB 09	CHECK	CWH	1 NOV 11	RELEASE NO. PR-23758	REPLACES -
ISSUE 5254 DRAWING NUMBER MKG SERIES CHART 4 PAGE 8 OF 16												
REVISIONS												
N	0047583	SSK										
	TAFFEB09											
P	0056737	PRS										
	RIMAT10											
R	0003578	NHS										
	1 NOV 11											

KEY CODE 9



R150,00 MIN DOOR RADIUS

R150,00 MIN DOOR RADIUS

R250,00 MIN DOOR RADIUS

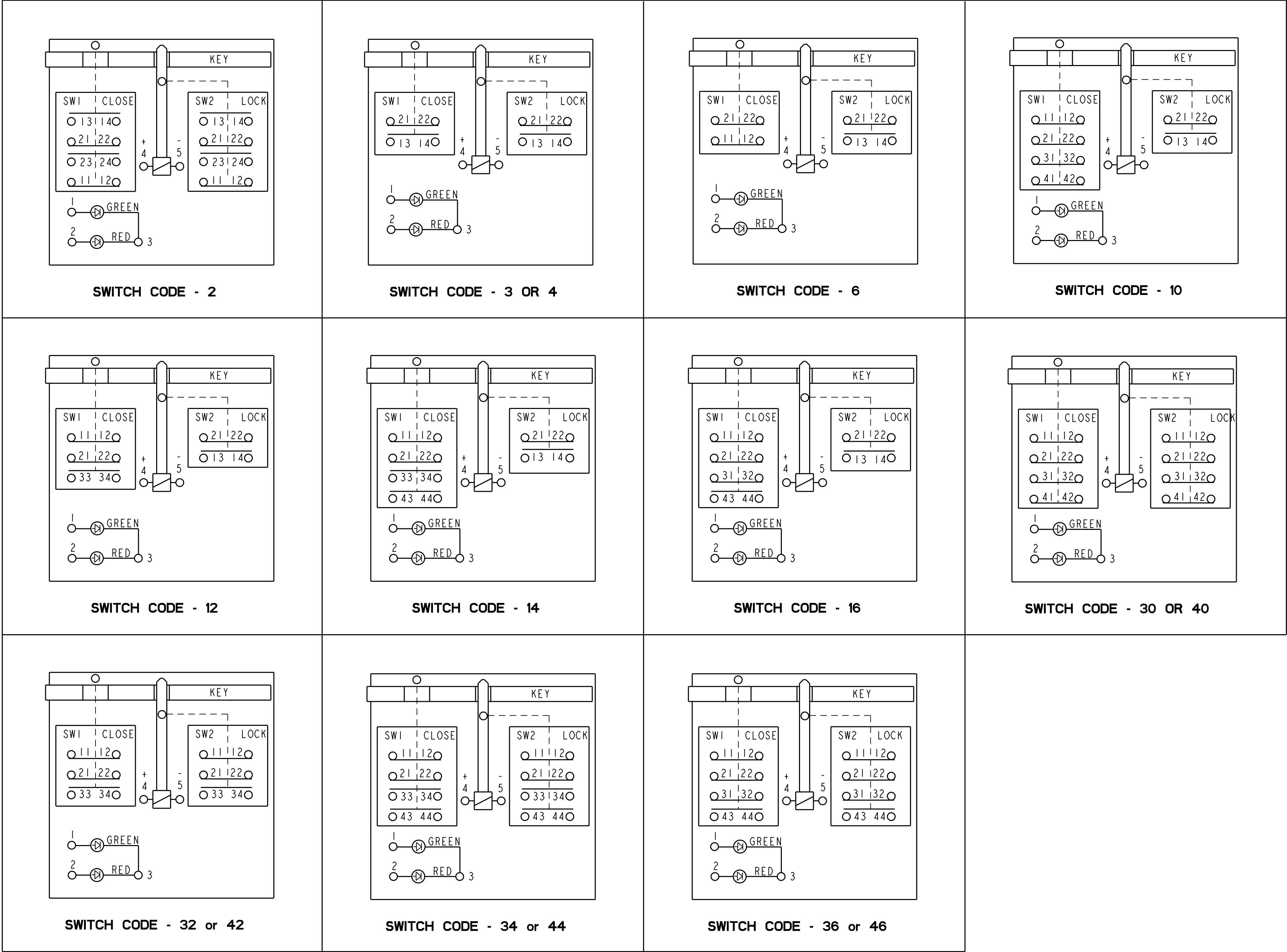
62,58 MIN INSERTION DISTANCE
2.464
58,68 MAX INSERTION DISTANCE
2.310

TOP KEY ENTRY

FRONT 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.			
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	0,38
THREE PLACES	1/64	0,0078	0,19
ANGLES	1/16	0,0078	0,19
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
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CHECK
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04FEB09
CHECK
CMH
10 NOV 11
RELEASE NO. PR-23758
REPLACES
-
M GK SERIES CHART 4
PAGE 10 OF 16
ISSUE
5254
DRAWING NUMBER
REVISIONS
N 0047583
S 04FEB09
P 0065737
R 0083578

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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

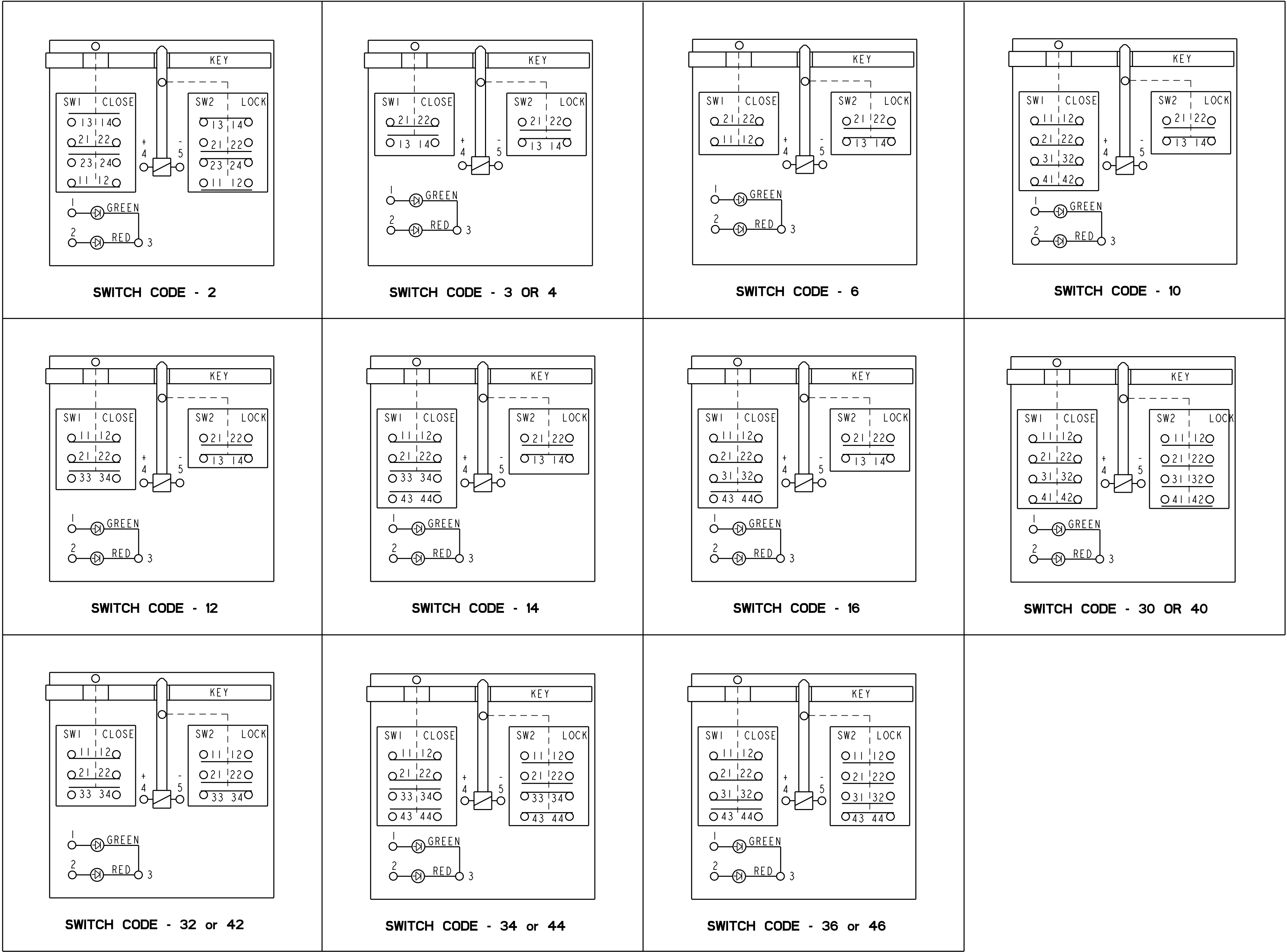
SCALE NTS

DO NOT SCALE PRINT

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

	MM	TOL.	IN.	TOL.
NO PLACES		1/16		0.0625
ONE PLACE	1.2	0.0156	1/16	0.0625
TWO PLACES	1.22	0.00156	1/16	0.00625
THREE PLACES				



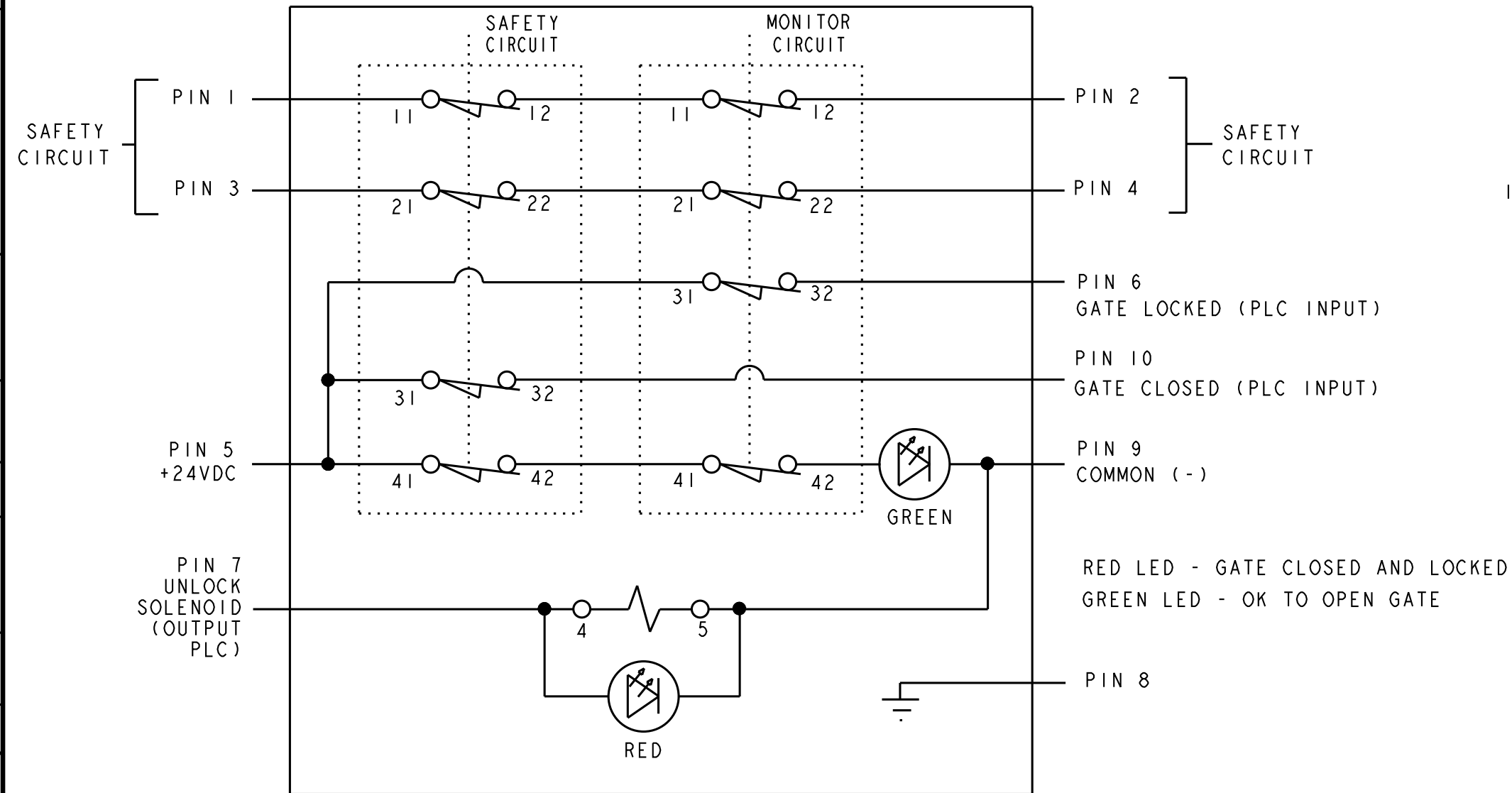


BODY / INDICATOR CODES - L OR R
TYPE / OVER-RIDE CODES - S OR T
DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED

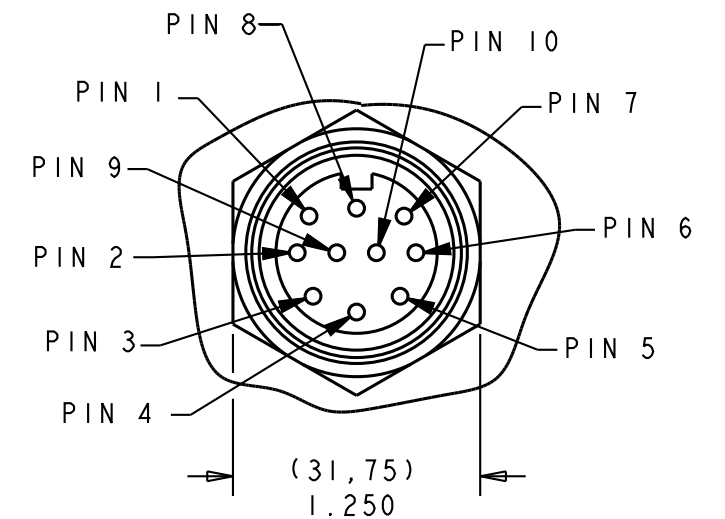
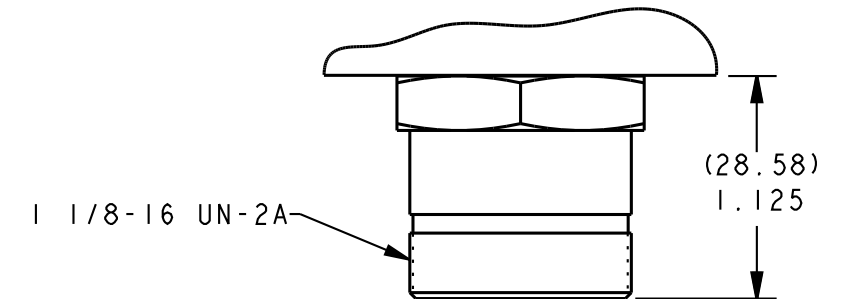
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MODIFICATION CODE: F05



SWITCH DIAGRAM STATE
IS CLOSED AND LOCKED

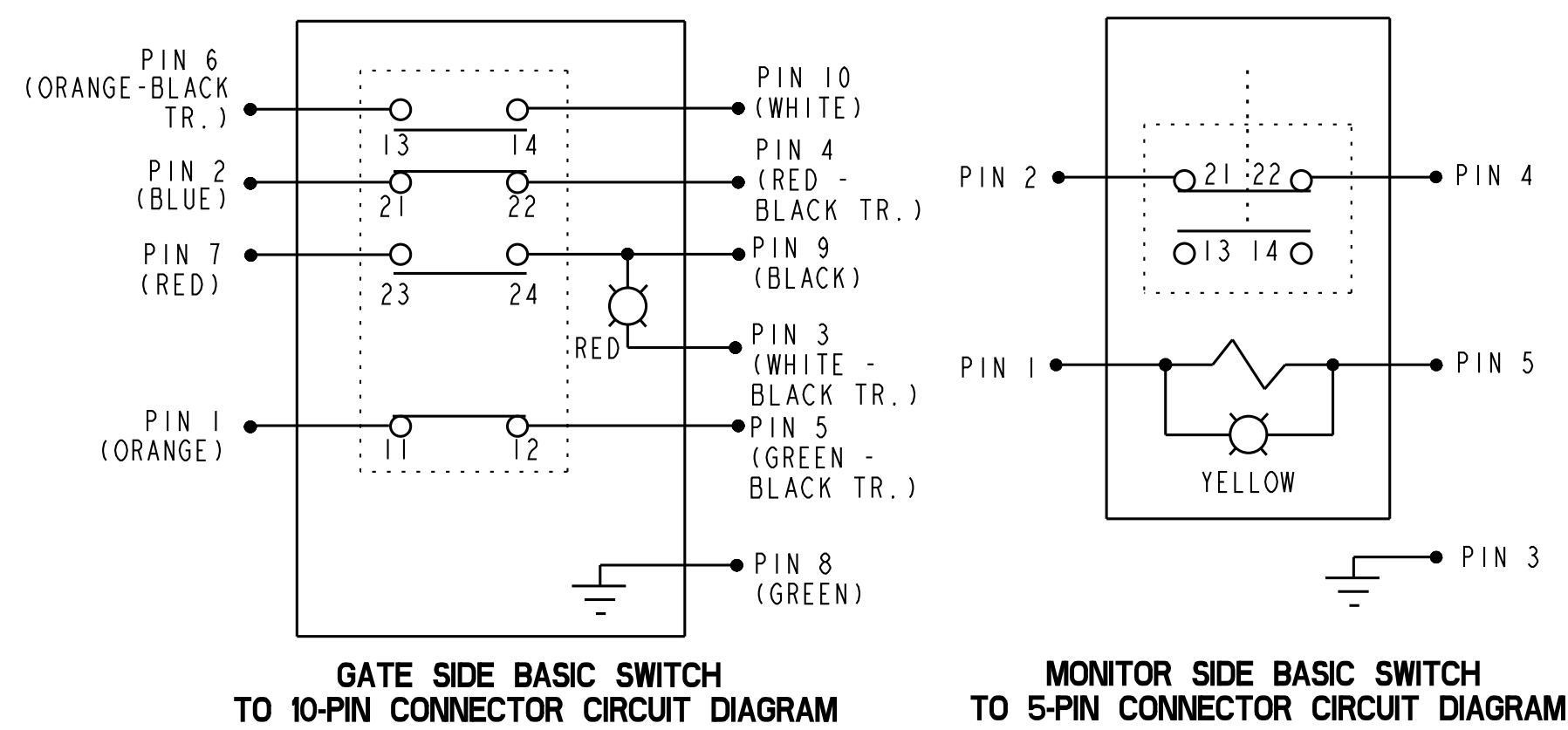


300V 7A
BRAD-HARRISON PART NO. 3R1006A21F010
OR EQUIVALENT

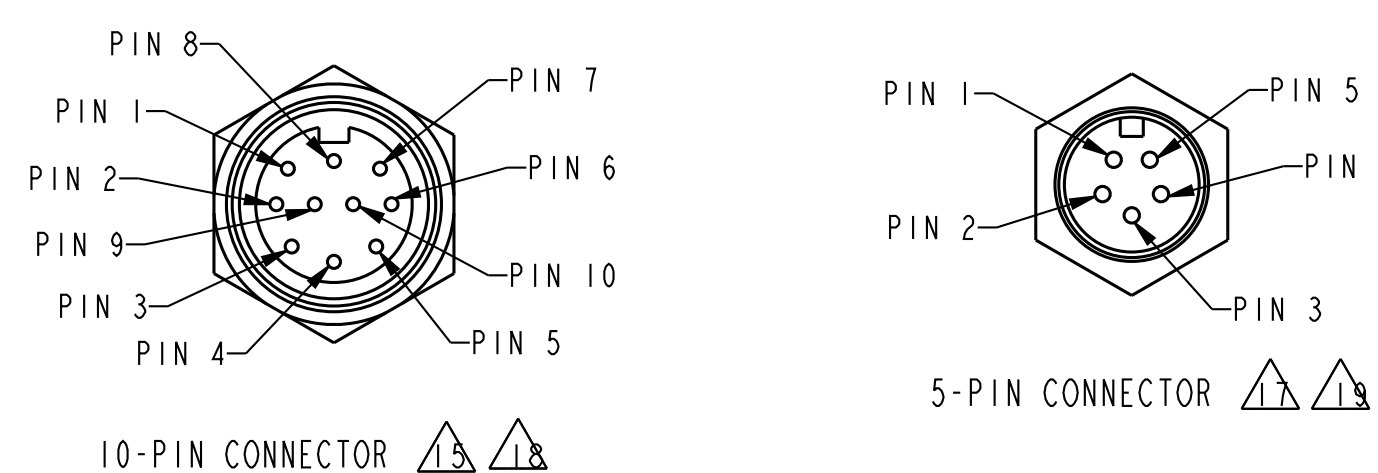
THIRD ANGLE PROJECTION			
			
SCALE		NTS	
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :			
DIM. mm	TOL mm / in	DIM. mm / in	TOL mm / in
NO PLACES X	1 / 0.0	X X	0.8 / 0.03
ONE PLACE X.X	0.4 / 0.016	X.XX	0.38 / 0.015
TWO PLACES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

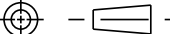
[illegible]

AC SOLENOID VOLTAGE DEVICES



DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED



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 / μ s	
NO PLACES	1.0	0.1 / 0.01	0.8 / 0.03
ONE PLACE	0.1	0.04 / 0.016	0.38 / 0.01
TWO PLACES	0.01	0.15 / 0.006	0.13 / 0.005
THREE PLACES	0.001		
ANGLES			
SI METRIC		US CUSTOMARY	
DESIGN UNITS 		DESIGN UNITS 	
WEIGHT 2.3 kg / 5 lb MAX			

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CATALOG LISTING

MICRO SWITCH
a Honeywell Division

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Honeywell:

[GKBA1L8](#) [GKCA14L8](#) [GKCA14MX](#) [GKCA3LX](#) [GKFE16LXA2](#) [GKFE16LXA6](#) [GKLC14L6A2](#) [GKLE36MXS4](#)
[GKLE3L7A4](#) [GKLG44PXB2](#) [GKRA3LXA2](#) [GKRE16LXS4](#) [GKRE36PXS2](#) [GKRE3L7A2](#) [GKRE3LXA2](#) [GKRE3LXA4](#)
[GKRE3M6S4](#) [GKRE40LXA2](#) [GKRE44L6S4](#) [GKRE44LXA4](#) [GKRE6L8S4](#) [GKRG44L7A2](#) [GKRE44L7A2](#)
[GKRA40F1C2-F05-C](#) [GKLA40L6A2-F05-C](#) [GKRA40M6A2-F05-C](#) [GKLA3K1A2-F03-C](#)