DUAL ENTRY SOLENOID KEY OPERATED SAFETY INTERLOCK NOMENCLATURE

GK ___ ___ ___ ___ ___ ___ ___ ___

BODY / INDICATOR		CONDUIT / SEAL		BASIC 11		HEAD		KEY		TYPE / OVER-RIDE		SOLENOID VOLTAGE	
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
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
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
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. NOT PRESENT ON TYPE/OVER-RIDE CODES B OR T
7 - 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
13 - THE LEFT INDICATOR IS YELLOW AND THE RIGHT INDICATOR IS RED

14 - 10-PIN CONNECTOR, BRAD HARRISON PART NO.3R1006AZIF010 OR EQUIVALENT
15 - 4-PIN CONNECTOR, WOODHEAD PART NO.80599-19 OR MOLEX PART NO.08631MZI OR EQUIVALENT
16 - 5-PIN CONNECTOR, BRAD HARRISON PART NO.41310 OR EQUIVALENT
17 - CONNECTOR INSTALLED IN BOTTOM CONDUIT HOLE
18 - CONNECTOR INSTALLED IN SIDE CONDUIT HOLE
19 - "S" MARK APPROVAL APPLICABLE ONLY FOR GKLE44XXXX,GKLE46XXXX,GKRE44XXXX AND GKRE46XXXX SERIES ONLY

ELECTRICAL RATING 9			
AC		DC	
A300	AC 15	Q300	DC 13
Ue	Ie	Ue	Ie
(VOLTS)	(AMPS)	(VOLTS)	(AMPS)
120	6	24	2.9
240	3	125	.55
		250	.27
Ith = 10 A			

ENVIRONMENTAL RATINGS
IP68 NEMA 1, 4, 6P, 12 & 13
TEMP RANGE -25°C TO 40°C
-13°F TO 104°F
STORAGE -40°C TO 120°C
-40°F TO 248°F
SHOCK: 50G PER IEC 68-2-27
VIBRATION: 10G PER IEC 68-2-6

APPROVALS
UL
CSA
CE
IEC 947-5-1
EN60947-5-1
S 10

ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION
SCALE NTS
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

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FED. MFG. CODE 01929
MICROSWITCH a Honeywell Division
SWITCH - DOOR INTERLOCK
CATALOG LISTING
GK SERIES CHART 4
DESIGN UNITS X
WEIGHT 1.5 kg / 3.3 LB

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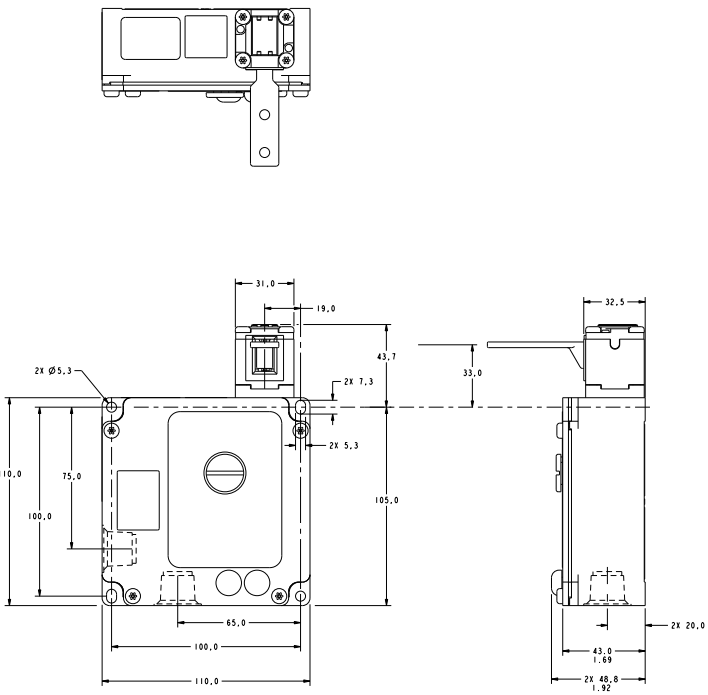
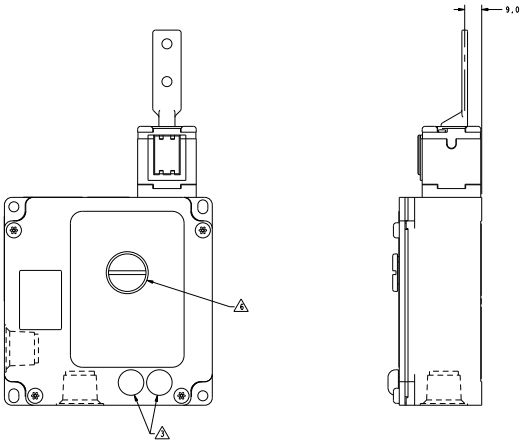


FRONT KEY ENTRY



TOP KEY ENTRY

BODY / INDICATOR CODES R OR G

ANSI Y14.5M-1982 APPLIES

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MICROSWITCH a Honeywell Division

SWITCH - DOOR INTERLOCK

CATALOG LISTING
GK SERIES CHART 4

THIRD ANGLE PROJECTION
SCALE 1:1
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	IN	MM	IN	MM
DECIMALS	±	±	±	±
ANGLES	±	±	±	±
MACHINED SURFACES	0.010	0.25	0.010	0.25
FINISH	125	3.2	125	3.2
DESIGN UNITS	X	MM	IN (CUSTOMARY)	

WEIGHT 1.5 kg / 3.3 LB

P/C/CAD 50 | MAN 7935TP 38 | SAV 11MA199 | PRS F4FE809 | REVISIONS 52 | GK SERIES CHART 4 | PAGE 2 OF 16 | PRI-23158

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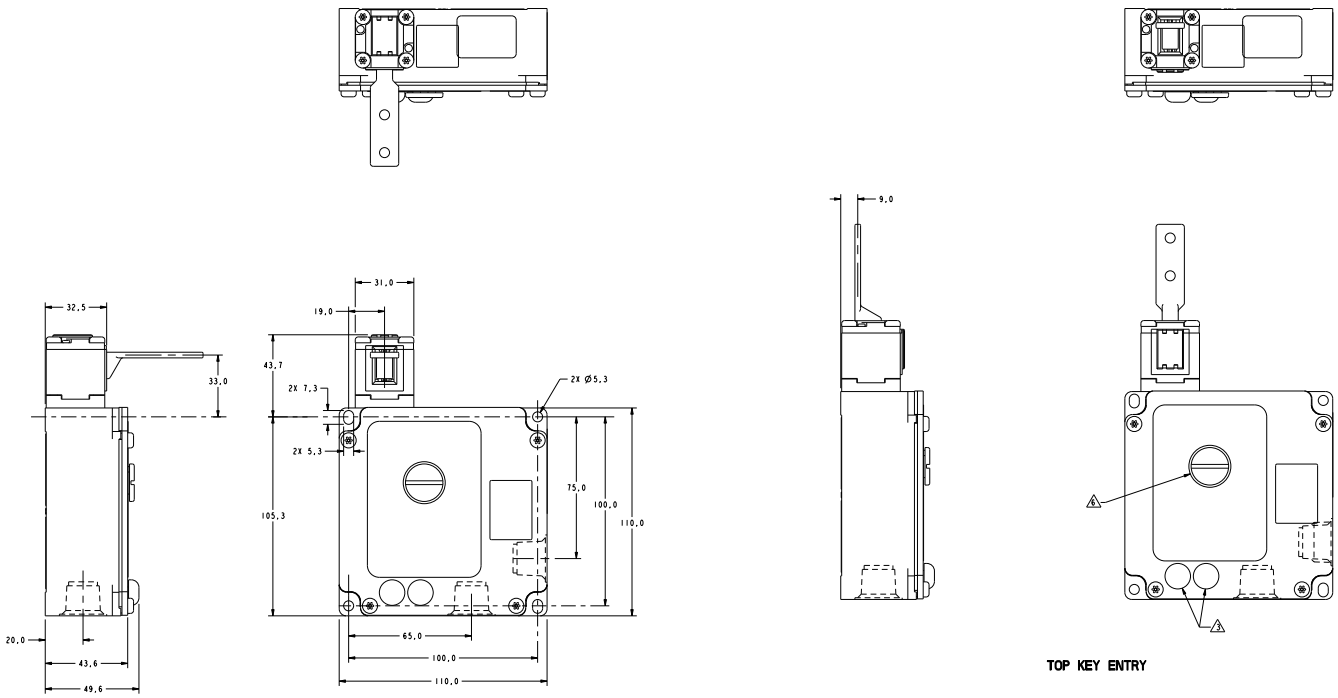

FRONT KEY ENTRY

TOP KEY ENTRY

BODY / INDICATOR CODES L OR F

ANSI Y14.5M-1982 APPLIES

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THIRD ANGLE PROJECTION

SCALE 1:1

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	IN	MM	IN	MM
DECIMALS	±	±	±	±
ANGLES	±	±	±	±
FRACTIONS	± 1/32	± 0.8	± 1/64	± 0.4
FINISH		3.2		1.6
CHAMFER		0.50		0.25

FED. MFG. CODE GIVEN
MICROSWITCH
a Honeywell Division

SWITCH - DOOR INTERLOCKING

CATALOG LISTING
GK SERIES CHART 4

U.SERVICE X
DESIGN UNITS

US CUSTOMARY

WEIGHT 1.5 kg / 3.3 LB

PTC/CAD 50
MAIN 7293(F)98

SAV	11	NOV	99	PBS	KAF	0809	

REVISIONS

REV	DESCRIPTION	DATE	CHECK
B	REVISED		

ISSUE B2
DRAWING NUMBER
GK SERIES CHART 4
SHEET 3 OF 16
REVISION NO PR-23758

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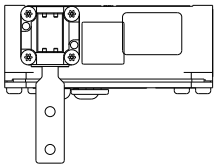
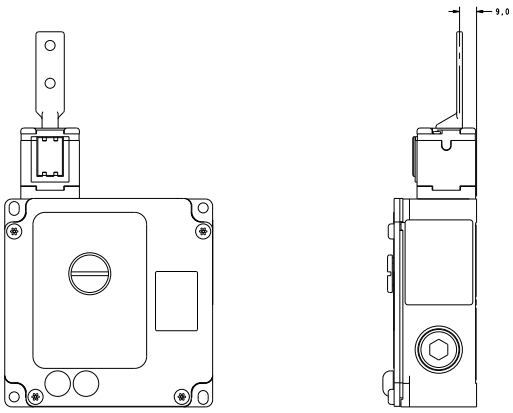
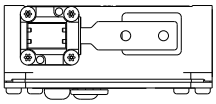


WITH KEY IN FRONT ENTRY POSITION



WITH KEY IN TOP ENTRY POSITION

HEAD CODE L



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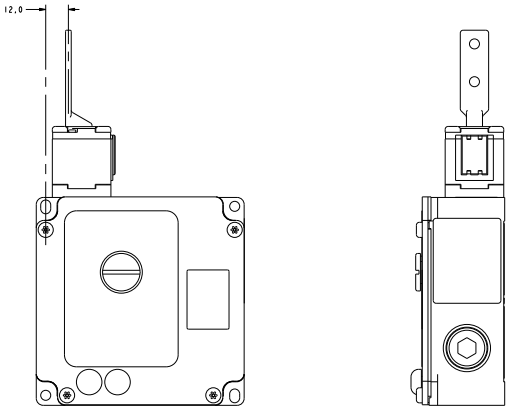

WITH KEY IN TOP ENTRY POSITION

HEAD CODE M

THIRD ANGLE PROJECTION

SCALE 2 : 1

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	IN	MM	IN	MM
DECIMALS	.X	±.5	.XX	±.25
DECIMALS	.XX	±.25	.XXX	±.13
DECIMALS	.XXX	±.13		
ANGLES		±1°		
FRACTIONS		±1/64		

DESIGN UNITS: IN [X] MM [ ] IN CENTIMETRY [ ]

WEIGHT 1.5 kg / 3.3 LB

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MICROSWITCH a Honeywell Division

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

ANSI Y14.5M-1982 APPLIES

PTC/CAD 93 MAN 7283EF93 SAV 29AU93 PRS 26FEB94 52 SHEET 1 OF 1 GK SERIES CHART 4 PR-23158 4 OF 16

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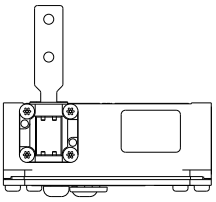

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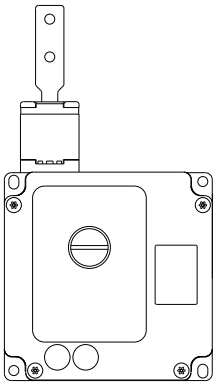
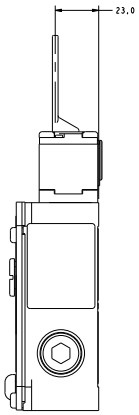
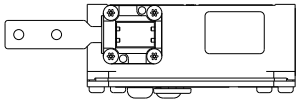




WITH KEY IN TOP ENTRY POSITION

HEAD CODE N



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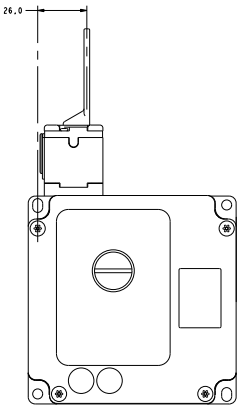

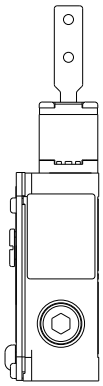

WITH KEY IN TOP ENTRY POSITION

HEAD CODE P

THIRD ANGLE PROJECTION

SCALE 1:1

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	IN	MM
DECIMALS	±	±
ANGLES	±	±
FRACTIONS	±	±
DIMENSIONS	0.01	0.25
LIMITS	+.010 -.000	+0.25 -0.00

DESIGN UNITS: IN / MM

WEIGHT 1.5 KG / 3.3 LB

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MICROSWITCH a Honeywell Division

SWITCH - DOOR INTERLOCK

CATALOG LISTING

GK SERIES CHART 4

ANSI Y14.5M-1982 APPLIES

P/C/CAD 50 | MAIN 1303EP38 | DRAWN SAV 12MAY99 | CHECK PBS 26FEB99 | REVISIONS 52 | ISSUE 52 | DRAWING NUMBER PB-23158 | SHEET 5 OF 16

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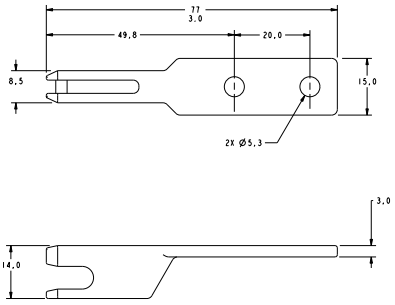
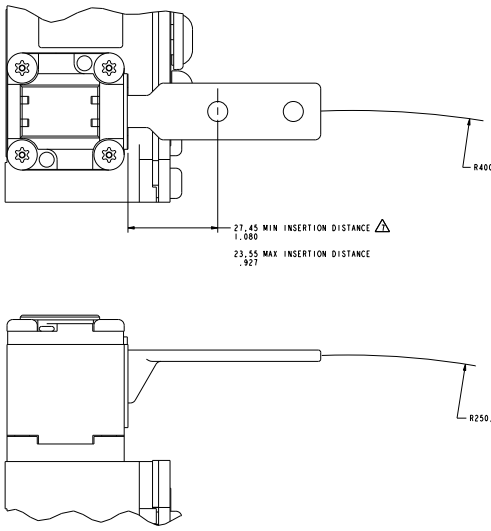
GK SERIES CHART 4

KEY CODE 6





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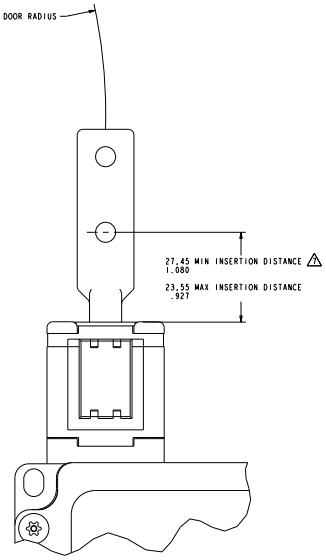
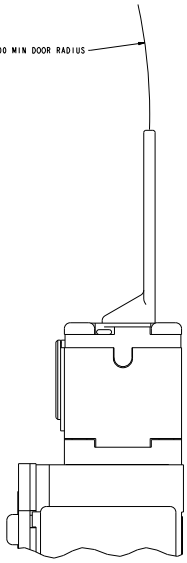


TOP KEY ENTRY



ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION

SCALE 2 : 1

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	IN	MM	IN	MM
DECIMALS	±	±	±	±
ANGLES	±	±	±	±
MACHINED	± .010	± 0.25	± .005	± 0.13
FRACTIONS	± 1/32	± 0.8	± 1/64	± 0.4

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MICROSWITCH a Honeywell Division

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

DESIGN UNITS: SI (MM) [X] IN (CUSTOMARY) [ ]

WEIGHT 1.5 KG / 3.3 LB

PTC/CAD 20 MAN 1303EP98 SAV 20AU98 PRS 02FEB99 REVISIONS 52 GK SERIES CHART 4 PRT-23158 6 OF 16

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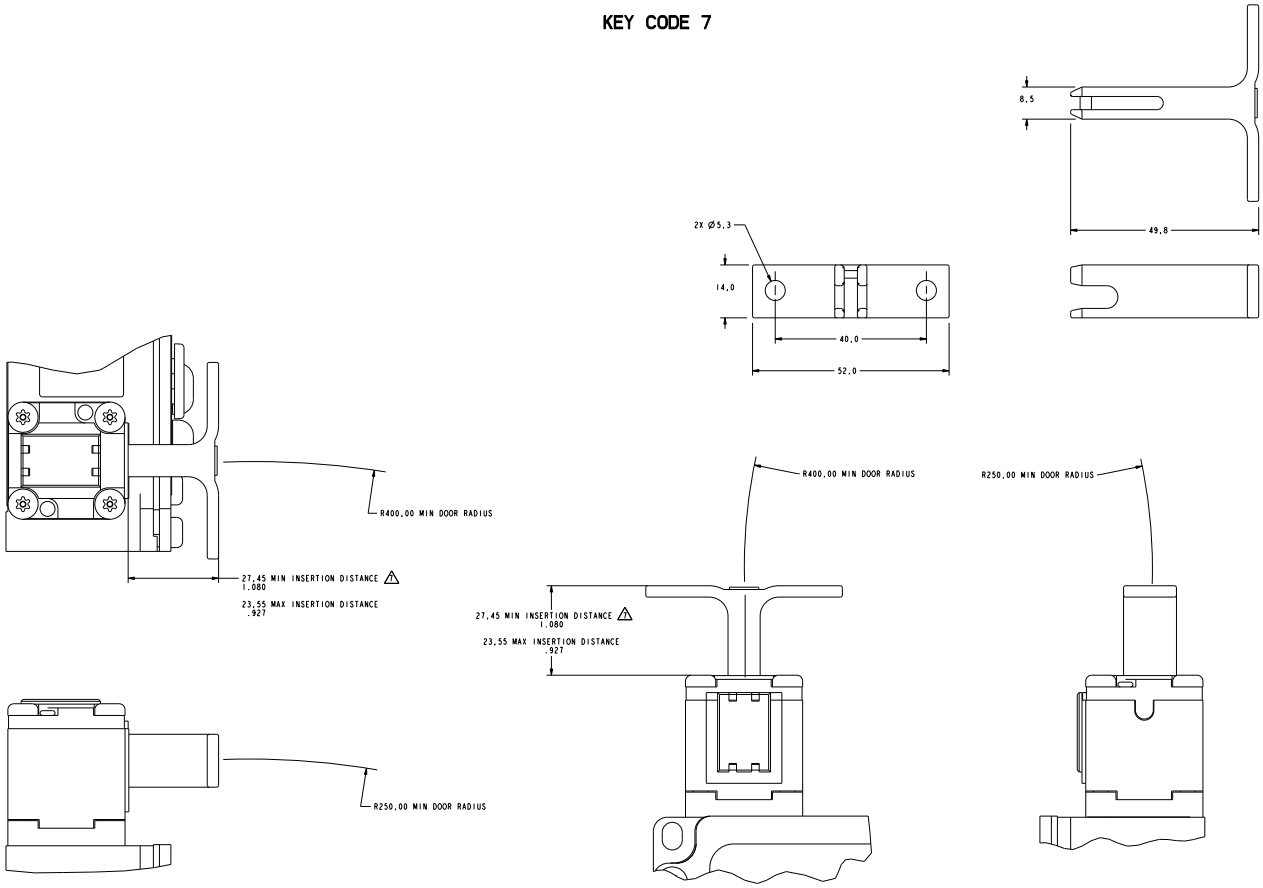
KEY CODE 7



FRONT KEY ENTRY

TOP KEY ENTRY

ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION

SCALE 2 : 1

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :

	IN	MM	IN	MM
DECIMALS				
ANGLES	±	±	±	±
FRACTIONS	±	±	±	±
DIMENSIONS	±	±	±	±
FINISH				
DIMENSIONS				

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MICROSWITCH
a Honeywell Division

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

DESIGN UNITS: U.S. METRIC X / INCH

WEIGHT 1.5 KG / 3.3 LB

PTC/CAD 20 | MAN T.OCYSS | SAV 7MAY99 | PRS 04FEB99 | REVISIONS | SHEET 52 | DRAWING NUMBER GK SERIES CHART 4 | PAGE 7 OF 16 | RELEASE NO PR-23758

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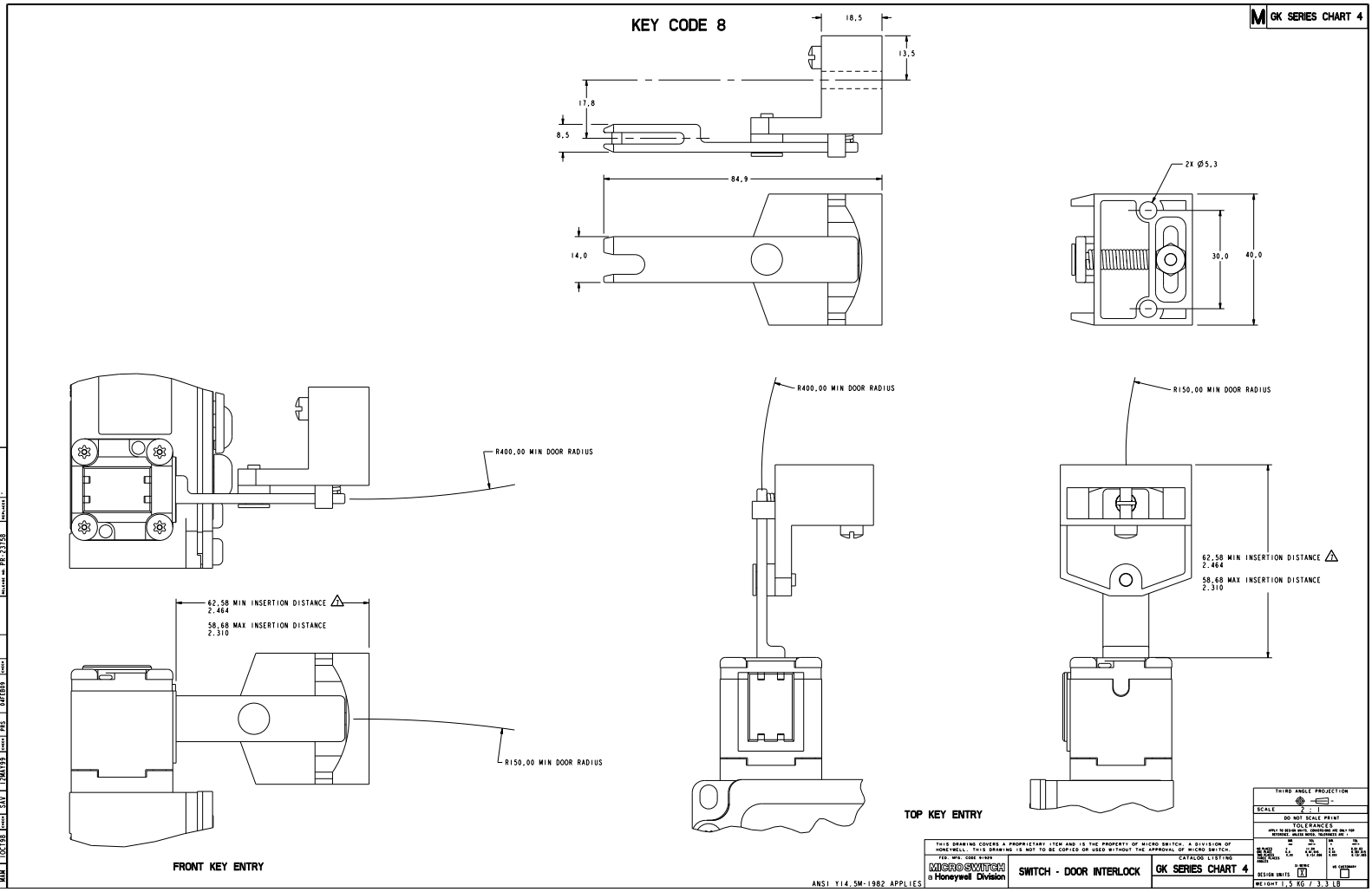

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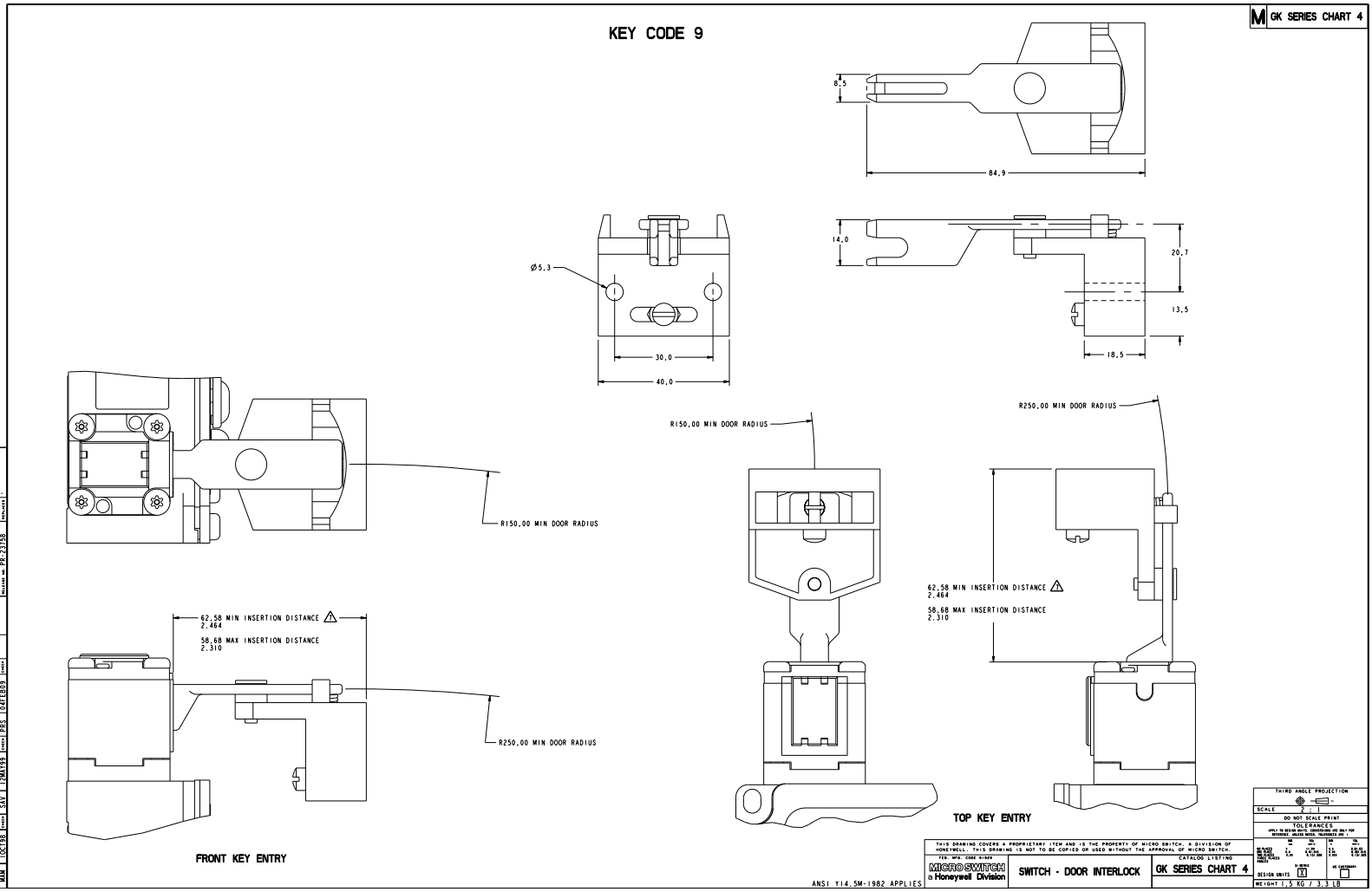

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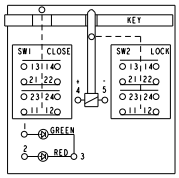

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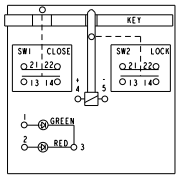

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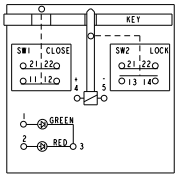

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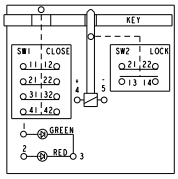

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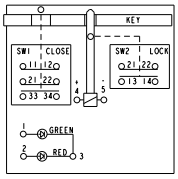

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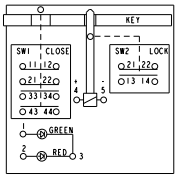

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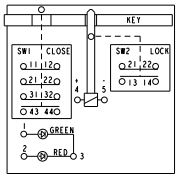
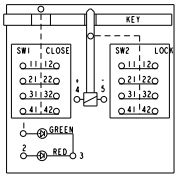
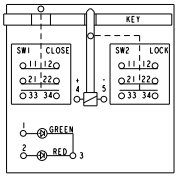


SWITCH CODE - 16



SWITCH CODE - 30 OR 40



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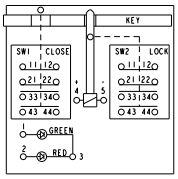
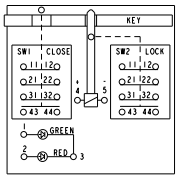


SWITCH CODE - 34 or 44



SWITCH CODE - 36 or 46

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

THIRD ANGLE PROJECTION

SCALE NTS

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

DR.	DATE	CK.	DATE
DR. PLATED		ENG.	
DR. PLASTIC		P.E.	
DR. SHEET METAL		P.E.	
DR. WELDMENT		P.E.	
DR. CABLE ASSEMBLY		P.E.	

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FED. MFG. CODE 01929

MICROSWITCH
a Honeywell Division

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

SI METRIC X

US CUSTOMARY

DESIGN UNITS X

WEIGHT 1.5 KG / 3.3 LB

ANSI Y14.5M-1982 APPLIES

P/C/CAD SD
MAIN 1 OCT 1998 SAV 1 NOV 1999 PRS 02FEB03 REVISIONS SB MATRIX SHEET 1 OF 1 SHEET 52 DRAWING NUMBER PR-23158 REVISION NO. 1 GK SERIES CHART 4

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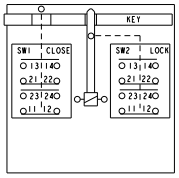

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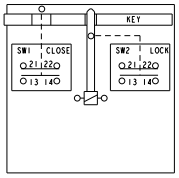
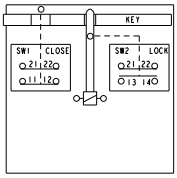


SWITCH CODE - 3 OR 4



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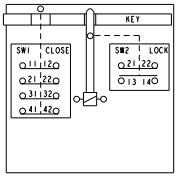

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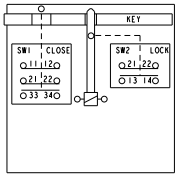

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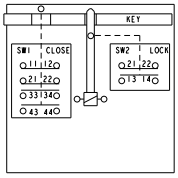

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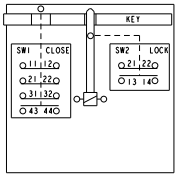

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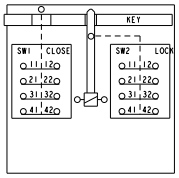
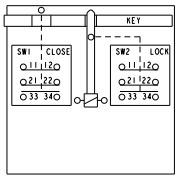
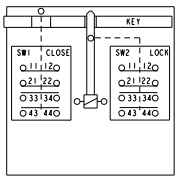


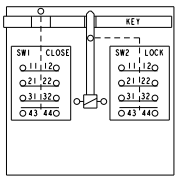
SWITCH CODE - 30 OR 40



SWITCH CODE - 32 or 42



SWITCH CODE - 34 or 44



SWITCH CODE - 36 or 46

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

THIRD ANGLE PROJECTION
SCALE NTS
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

	IN	MM	IN	MM
DECIMALS	±	±	±	±
ANGLES	±	±	±	±
MACHINED	±.010	±0.25	±.005	±0.13
FORMED	±.030	±0.76	±.010	±0.25

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FED. MFG. CODE SYMB
MICROSWITCH a Honeywell Division
CATALOG LISTING
SWITCH - DOOR INTERLOCK
GK SERIES CHART 4
DESIGN UNITS IN MM X IN CUSTOMARY
WEIGHT 1.5 KG / 3.3 LB

ANSI Y14.5M-1982 APPLIES

P/C/CAD 50 MAIN 1 OCT 1998 SAY 1 MAY 1999 PRS 8 OCT 1999 REVISIONS NO. DESCRIPTION DATE CHECK ISSUE 02 DRAWING NUMBER GK SERIES CHART 4 PAGE 1 OF 16 RELEASE NO. PR-23158 REVISED

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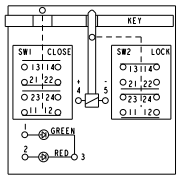
GK SERIES CHART 4



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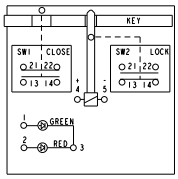

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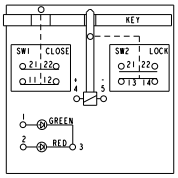

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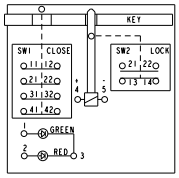

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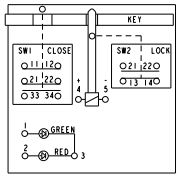

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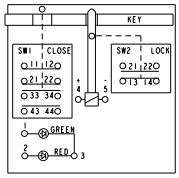

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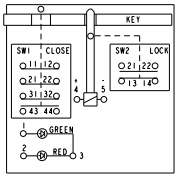

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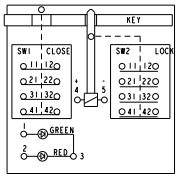
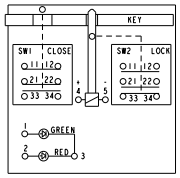
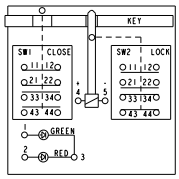


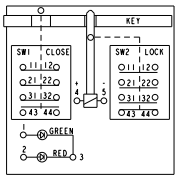
SWITCH CODE - 30 OR 40



SWITCH CODE - 32 or 42



SWITCH CODE - 34 or 44



SWITCH CODE - 36 or 46

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

THIRD ANGLE PROJECTION

SCALE NTS

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :

DECIMALS	±	FRACTIONS	±
ANGLES	±		
MACHINED SURFACES	0.25	1/32	0.031
CAST SURFACES	0.50	1/16	0.063

DESIGN UNITS: X INCH / MM

WEIGHT 1.5 KG / 3.3 LB

ANSI Y14.5M-1982 APPLIES

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FED. MFG. CODE 01929

MICROSWITCH
a Honeywell Division

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

P/C/CAD 50 | MAIN 1 OCT 1998 | DWN 2 SEP 96 | PBS 14 FEB 03 | 12 OF 16 | PR-23158

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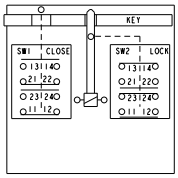
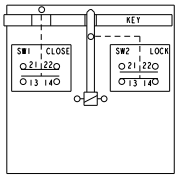
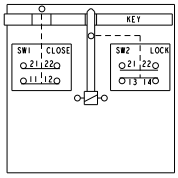


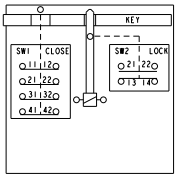
SWITCH CODE - 2



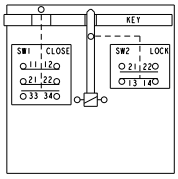
SWITCH CODE - 3 OR 4



SWITCH CODE - 6



SWITCH CODE - 10



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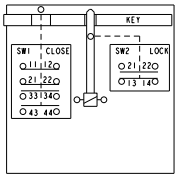

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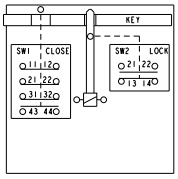

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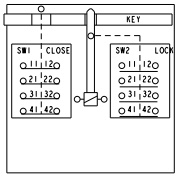
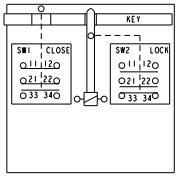
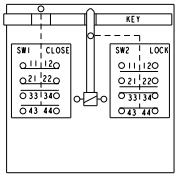


SWITCH CODE - 30 OR 40



SWITCH CODE - 32 or 42



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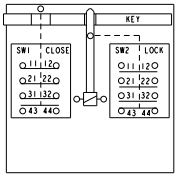

SWITCH CODE - 36 or 46

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

THIRD ANGLE PROJECTION

SCALE NTS

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN ONLY. DIMENSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :

DECIMALS	.X	±0.1	.XX ±0.01
DECIMALS	.XX	±0.01	.XXX ±0.005
DECIMALS	.XXX	±0.005	.XXXX ±0.0005
ANGLES		±1/2°	±0°30'

DESIGN UNITS X MM / IN CUSTOMARY

WEIGHT 1.5 KG / 3.3 LB

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FED. MFG. CODE 01929
MICROSWITCH a Honeywell Division

CATALOG LISTING
SWITCH - DOOR INTERLOCK
GK SERIES CHART 4

ANSI Y14.5M-1982 APPLIES

P/C/CAD	SD	MAN	10CT98	SAV	12MAY99
PRS	04FEB03	52		GK SERIES CHART 4	
PR-23758	13 OF 16				

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MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

SWITCH-DOOR INTERLOCK

CATALOG LISTING
GK SERIES CHART 4

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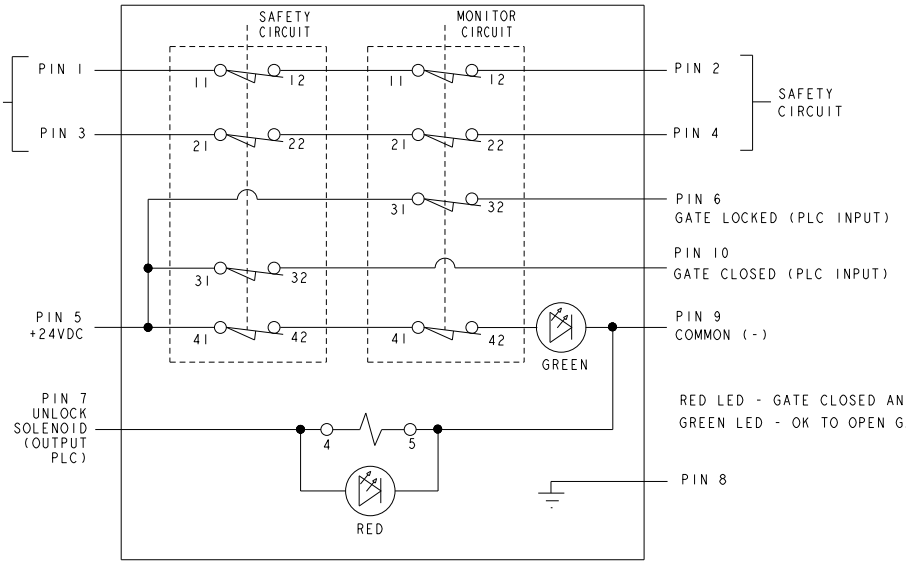
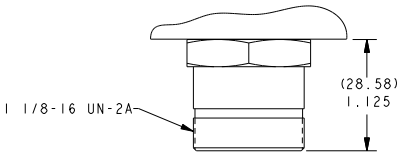
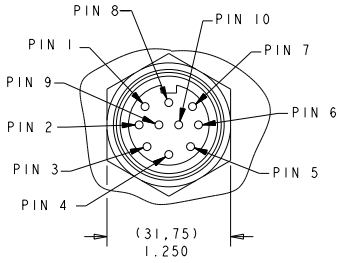
MODIFICATION CODE: F05



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. in	TOL. mm/in
NO PLACES	X	1/.04	X.X	0.8/.03
ONE PLACE	X.X	0.25/.016	X.XX	0.38/.015
TWO PLACES	X.XX	0.15/.006	X.XXX	0.13/.005
THREE PLACES				
ANGLES				

SI METRIC ☒ US CUSTOMARY ☐
DESIGN UNITS

WEIGHT 2,3 kg / 5 LB MAX

ANSI Y14.5M-1982 APPLIES

CATALOG LISTING GK SERIES CHART 4
PAGE 14 OF 16
RELEASE NO. PR-24370
REPLACES -
ISSUE 52

REVISIONS			
N	0047583 SSR 04FEB09	04FEB09	PRS

CHECK	PRS	CHECK	JAF
9 DEC 99	9 DEC 99		
DRAWN	LJK		

PTC/CAD 3D

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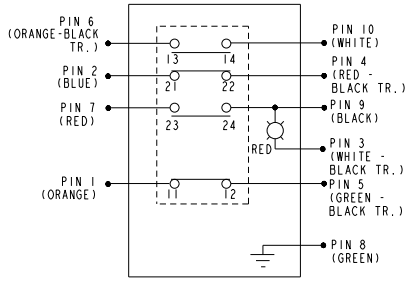
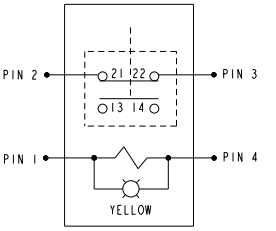
MODIFICATION CODE: -FW

DC SOLENOID VOLTAGE DEVICES 13

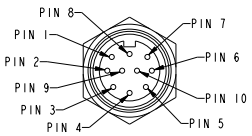


GATE SIDE BASIC SWITCH
TO 10-PIN CONNECTOR CIRCUIT DIAGRAM

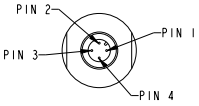


MONITOR SIDE BASIC SWITCH
TO 4-PIN CONNECTOR CIRCUIT DIAGRAM

DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED

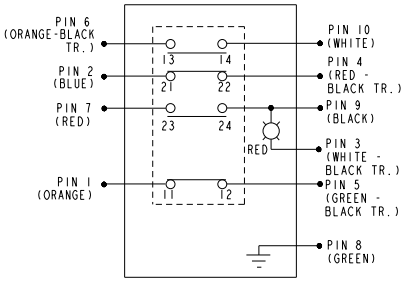


10-PIN CONNECTOR 15 18

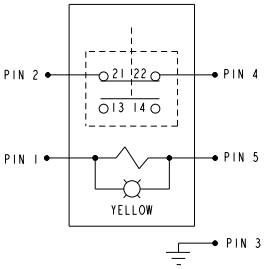


4-PIN CONNECTOR 18 19

AC SOLENOID VOLTAGE DEVICES 13

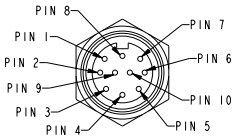


GATE SIDE BASIC SWITCH
TO 10-PIN CONNECTOR CIRCUIT DIAGRAM

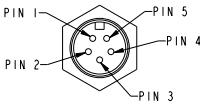


MONITOR SIDE BASIC SWITCH
TO 5-PIN CONNECTOR CIRCUIT DIAGRAM

DIAGRAMS SHOWN WITH KEY INSERTED AND LOCKED



10-PIN CONNECTOR 15 18



5-PIN CONNECTOR 17 19

THIRD ANGLE PROJECTION

SCALE NTS

DO NOT SCALE PRINT

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

	DIM	TOL mm	DIM in	TOL in
NO PLACES	5	1/04	5.5	0.04/.03
ONE PLACE	5.2	0.4/.016	5.2	0.38/.015
TWO PLACES	5.12	0.25/.004	5.125	0.13/.005
THREE PLACES				
ANGLES				

SI METRIC | US CUSTOMARY

DESIGN UNITS X

WEIGHT 2.3 kg / 5 LB MAX

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.

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FED. MFG. CODE 91929

CATALOG LISTING

SWITCH - DOOR INTERLOCK

GK SERIES CHART 4

ANSI Y14.5M-1982 APPLIES

| | | | |

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SWITCH-DOOR INTERLOCK

CATALOG LISTING
GK SERIES CHART 4

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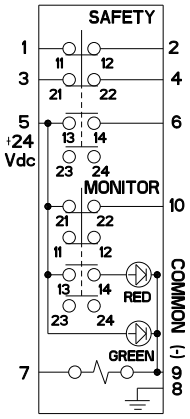
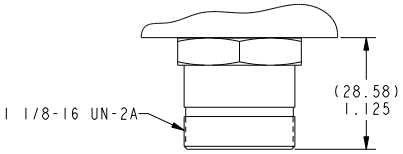
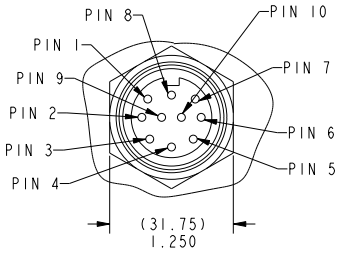
MODIFICATION CODE: F04



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	0.25/.010	X.XX	0.38/.015
TWO PLACES	X.XX	0.13/.005	X.XXX	0.13/.005
THREE PLACES				
ANGLES				

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐

WEIGHT 2,3 kg / 5 LB MAX

ANSI Y14.5M-1982 APPLIES

PTC/CAD 3D	DRAWN RS	17DEC04	CHECK AK	17DEC04	CHECK PRS	04FEB09	CHECK	REVISIONS N 0047583 SSR 04FEB09	ISSUE 52	CATALOG LISTING GK SERIES CHART 4 PAGE 16 OF 16	RELEASE NO.	REPLACES -

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