Honeywell

LIMIT SWITCH

CATALOGUE LISTING
GLS

CHART NO.
MTG-GL-172

MTG-GL-172

REPLACES

DRAWING NUMBER A018-38

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RELEASE NUMBER

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6	7/96
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	I. WEIR 6/98
11	CO*2215
	J.BOYD 12/01
12	CO*2372
	M.LOCH 05/02
13	CO*2608
	M.LOCH 12/02
14	CO*2818
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15	PR*1927
	M.LOCH 11/03
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19	0044283
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20	0057064
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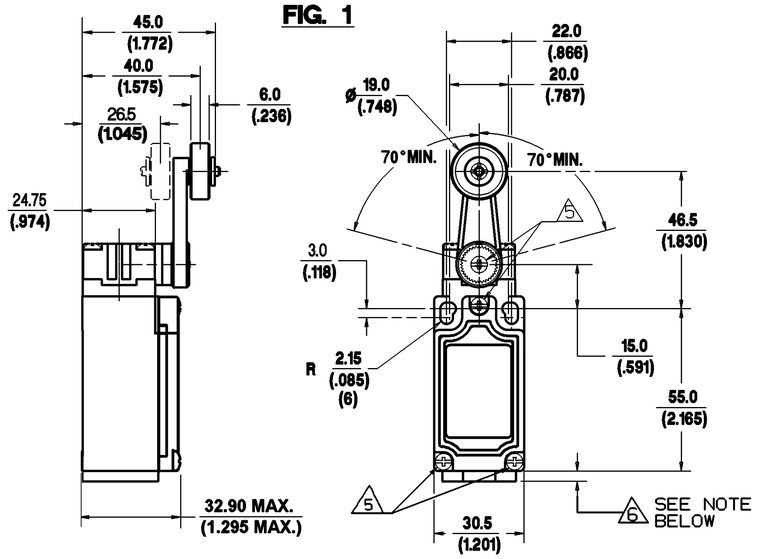
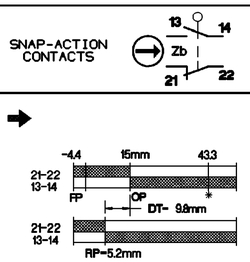
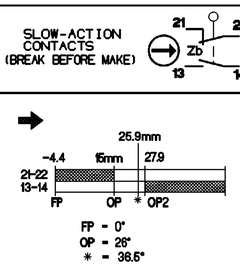
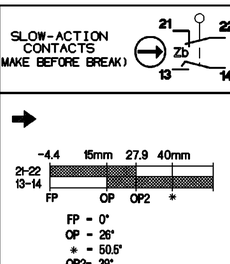
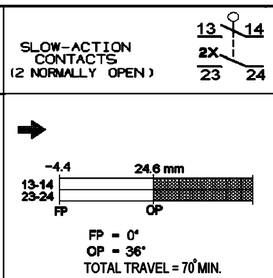
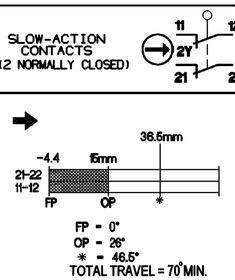
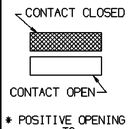
21	0063036
	MBN 01APR10

FIG. 1



SNAP-ACTION CONTACTS	SLOW-ACTION CONTACTS (BREAK BEFORE MAKE)	SLOW-ACTION CONTACTS MAKE BEFORE BREAK)	SLOW-ACTION CONTACTS (2 NORMALLY OPEN)	SLOW-ACTION CONTACTS (2 NORMALLY CLOSED)	CONTACT BLOCK DIAGRAM TERMINAL DESIGNATION TO EN 50013
 FP = 0° OP = 26° RP = 14.5° TOTAL TRAVEL = 70°MIN.	 FP = 0° OP = 26° * = 36.5° OP2= 39° TOTAL TRAVEL = 70°MIN.	 FP = 0° OP = 26° * = 50.5° OP2= 39° TOTAL TRAVEL = 70°MIN.	 FP = 0° OP = 36° TOTAL TRAVEL = 70°MIN.	 FP = 0° OP = 26° * = 46.5° TOTAL TRAVEL = 70°MIN.	NOMINAL TRAVELS AND RELATED TERMINALS  * POSITIVE OPENING TO IEC 60947-5-1
120 (1.1)	110 (1.0)	110 (1.0)	110 (1.0)	110 (1.0)	NORMAL OPERATING TORQUE MAX Nmm (in.lbs)
140 (1.3)	160 (1.5)	170 (1.6)	150 (1.4)	150 (1.4)	MAXIMUM DISCONNECT TORQUE Nmm (in.lbs)

01 OR 07 — 03 OR 33 — 04 OR 34 — 05 OR 35 — 06 OR 36

06 — BASIC SWITCH WITH SILVER CONTACTS

36 — BASIC SWITCH WITH GOLD PLATED CONTACTS

NOTE:-
ANY STANDARD LISTING WITH SUFFIX 'RS' OR 'FE' IS PERMITTED.

BASIC SWITCH — CONDUIT THREAD (SEE FIG. 3) — EN50047 BODY TYPE (SEE FIG. 1) — SIDE ROTARY ACTUATOR (SEE FIGS. 1 & 5.) — ROLLER MATERIAL A = PLASTIC : B = METAL: Y = RUBBER — HEAD ORIENTATION AND LEVER DIRECTION OF OPERATION (SEE FIG. 4) — MODIFICATION CODE

GLD X XX A1 X - X XXXX

1/2" NPT X 14 CONDUIT THREAD	A	01
PG 13.5 CONDUIT THREAD	B	03
M20 X 1.5 CONDUIT THREAD	C	04
PF 1/2 CONDUIT THREAD	D	05
		06
		07
		33
		34
		35
		36

A	BLANK = NO ROLLER FITTED.
B	
Y	

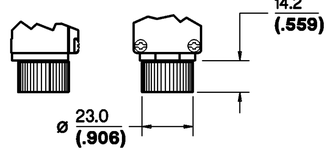
1	BLANK = LEVER TO FRONT, SWITCHING IN BOTH DIRECTIONS.
2	
3	
4	
5	

7 C311 — CABLE 4 WIRE, WITHOUT GROUND, LAST CHARACTER IS CABLE LENGTH 1 = 1MTR. CABLE LENGTHS ARE FROM 1 TO 9 METRES. ONLY AVAILABLE WITH CONDUIT THREAD TYPE 'B' .

Q31 — CONNECTOR , 4 PIN MICRO. ONLY AVAILABLE WITH CONDUIT THREAD TYPE 'B' .

Q33 — CONNECTOR, 4 PIN MINI ONLY AVAILABLE WITH CONDUIT THREAD TYPE 'B' .

FIG. 3



PF 1/2 CONDUIT THREAD ADAPTER

D

FIG. 4

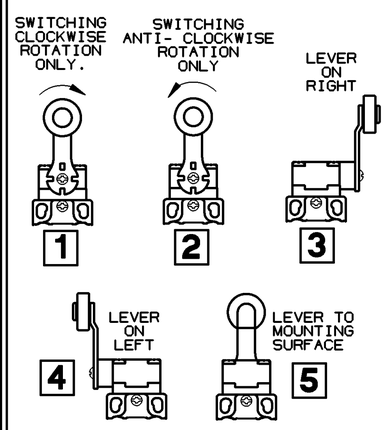


FIG. 5

ACTUATOR CODE A1B = METAL ROLLER WITH METAL LEVER & SHAFT

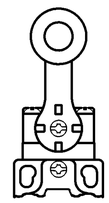
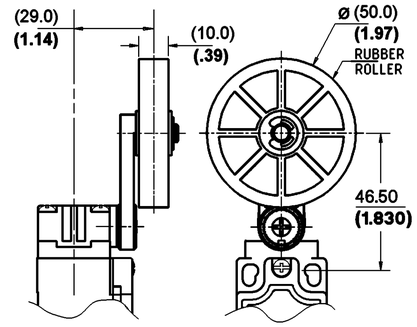


FIG 6

ACTUATOR CODE A1Y = RUBBER ELEVATOR ROLLER WITH PLASTIC LEVER AND SHAFT



NOTE:
FOR CONNECTION DIAGRAMS AND ADDITIONAL ELECTRICAL, ENVIRONMENTAL & DIMENSIONAL INFORMATION SEE DRAWING GL-49212.

NOTES:-

1. MICRO SWITCH BLUE GLASS FILLED POLYESTER HOUSING & COVER. BLACK GLASS FILLED POLYAMIDE HEAD.
2. ENCLOSURE DOUBLE INSULATED TO IEC 539 CLASS II.
3. MINIMUM OPERATING VELOCITY (Vmin) = 2.0 MM/S (THESE LIMITS APPLY TO CAM MAXIMUM OPERATING VELOCITY (Vmax) = 200 MM/S OPERATION AS SHOWN IN THE MAXIMUM OPERATING FREQUENCY (Fmax)= 250 OPS/MIN ABOVE DIAGRAMS ONLY)
4. FREE POSITION (FP), OPERATING POINT (OP), OVERTRAVEL (OT) AND PRETRAVEL (PT) ALL TO EN50047.

5 MAXIMUM TIGHTENING TORQUE FOR FIXING SCREW = 0.339 Nm (3in.LB)

6 3.50(.138) FOR PG13.5, M20x1.5 AND PF 1/2 THREADS, 7.20(.283) FOR 1/2-14 NPT THREADS.

7 CABLED PRODUCTS TEMP RANGE -25°C TO 85°C -3°F TO 185°F

NO CHANGES CAN BE MADE TO THIS DRAWING WITHOUT JOINT NEWHOUSE/FREEPORT APPROVAL

IEC 947-5-1 ELECTRICAL RATING

SILVER CONTACTS						GOLD PLATED CONTACTS
AC		AC (FOR 2NC)		DC		
A600 Ue	AC15 Ie	A500 Ue	AC15 Ie	Q300 Ue	DC13 Ie	
VOLTS	AMPS	VOLTS	AMPS	VOLTS	AMPS	I_{th}= 10A
120	6	120	6	125	0.55	
240	3	240	3	250	0.27	1V 10µA MIN.
380	1.9	380	1.9			
480	1.5	480	1.5			50V 100mA MAX.
500	1.4	500	1.4			
600	1.2					

ENVIRONMENTAL	
IP66/IP67 NEMA 1, 4X (INDOOR USE ONLY), 12,13	7
TEMP RANGE	: -40° C TO 85° C / -40° F TO 185° F
STORAGE	: -40° C TO 85° C / -40° F TO 185° F
SHOCK	: 50G PER IEC 68-2-27
VIBRATION	: 10G PER IEC 68-2-6

APPROVALS: UL, CSA, IEC 60947-5-1, EN50047

DRAWN	M. LOCH	3/93	
CHECK	I. WEIR	4/93	
DESIGN	J. BOYD	4/93	
AUTHOR'N	P. TRICKETT	4/93	

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THIRD ANGLE PROJECTION | SCALE NONE | DIMENSIONS ARE IN MM/INCHES. | RASTER