Specification Details: **Date: 12/13/2007**

Specification: MIL-DTL-83731
Title: Switches, Toggle, Unsealed and Sealed Toggle
Federal Supply Class (FSC): 5930
Conventional: Yes
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: No
MIL-STD-690 Failure Rate Sampling Plans & Procedures: No
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: No

Contact Information:

DSCC Office of Primary Involvement: Passive Devices Team, DSCC-VQP
Primary DSCC-VQ Contact: 614-692-0504, e-mail: vqp.rb@dla.mil
Secondary DSCC-VQ Contact: 614-692-0505, e-mail: vqp.arw@dla.mil

Notes:

N/A

Part Configuration:

M83731/9-211

Designator	Specif-ication Number	Specif-ication Sheet	Switch	Termination Type
M	83731	/9	-21	1

Part Listings:

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
M83731/9-211	M83731/9-211	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-212	M83731/9-212	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-231	M83731/9-231	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-232	M83731/9-232	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-261	M83731/9-261	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-262	M83731/9-262	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-271	M83731/9-271	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-272	M83731/9-272	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-311	M83731/9-311	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-312	M83731/9-312	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-341	M83731/9-341	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/9-342	M83731/9-342	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-211	M83731/10-211	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-212	M83731/10-212	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-231	M83731/10-231	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-232	M83731/10-232	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-261	M83731/10-261	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-262	M83731/10-262	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-271	M83731/10-271	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-272	M83731/10-272	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-311	M83731/10-311	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-312	M83731/10-312	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-321	M83731/10-321	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-322	M83731/10-322	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-331	M83731/10-331	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-332	M83731/10-332	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-341	M83731/10-341	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-342	M83731/10-342	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
M83731/10-351	M83731/10-351	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/10-352	M83731/10-352	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/13-211	M83731/13-211	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/13-231	M83731/13-231	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/13-261	M83731/13-261	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/13-271	M83731/13-271	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/13-311	M83731/13-311	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/13-341	M83731/13-341	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-211	M83731/14-211	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-231	M83731/14-231	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-261	M83731/14-261	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-271	M83731/14-271	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-311	M83731/14-311	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-321	M83731/14-321	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-331	M83731/14-331	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-341	M83731/14-341	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/14-351	M83731/14-351	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/15-211	M83731/15-211	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/15-231	M83731/15-231	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/15-261	M83731/15-261	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/15-271	M83731/15-271	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/15-311	M83731/15-311	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/15-341	M83731/15-341	LGMEA Ltr, 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-211	M83731/16-211	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-231	M83731/16-231	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-261	M83731/16-261	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-271	M83731/16-271	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-311	M83731/16-311	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-321	M83731/16-321	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-331	M83731/16-331	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-341	M83731/16-341	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
M83731/16-351	M83431/16-351	LGMEA Ltr 02 Dec 93	ITT Industries/C & K Switch Products
MS18150-1	TW20001	ESA Ltr, 29 Apr 93	Eaton Corporation
MS18151-1	TW20002	83731-1962-07	Eaton Corporation (Mexico)
MS18152-1	TW20000	ESA Ltr, 29 Apr 93	Eaton Corporation
Note: MS25068 INACTIVE FOR NEW DESIGN - USE MS24525 OR MS25308			
MS25068-21	7662K7	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25068-23	7664K5	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25068-24	7660K13	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25068-25	7668K7	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25068-26	7674K5	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25068-27	7672K5	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25068-28	7666K9	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25068-31	7670K6	83731-1873-07	Eaton Controls S. de R.L. de C.V.
Note: MS25098 INACTIVE FOR NEW DESIGN - NO SUPERSEDING STANDARD			
MS25098-22	8261K22	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25098-23	8261K23	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25098-26	8261K26	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25098-29	8261K29	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25098-30	8261K30	83731-1873-07	Eaton Controls S. de R.L. de C.V.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
Note: MS25100 INACTIVE FOR NEW DESIGN - NO SUPERSEDING STANDARD			
MS25100-22	8262K22	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25100-23	8262K23	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25100-26	8262K26	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25100-29	8262K29	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25100-30	8262K30	83731-1873-07	Eaton Controls S. de R.L. de C.V.
Note: MS25125 INACTIVE FOR NEW DESIGN - USE MS24658 OR MS24612			
MS25125-B1	8857K40	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-B4	8857K54	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-C1	8857K41	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-C2	8857K47	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-C3	8857K45	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-D1	8857K42	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-E1	8857K43	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-E2	8857K48	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-E3	8857K44	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-F7	8857K50	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-G11	8857K51	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-H7	8857K52	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-J4	8857K49	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-K11	8857K56	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-L10	8857K81	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-L5	8857K78	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-L6	8857K79	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-L9	8857K80	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-M11	8857K46	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-N11	8857K55	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25125-K8	8857K53	83731-1872-07	Eaton Corporation
Note: MS25125 Inactive for New Design -Use MS24658 or MS24612			
MS25125-A1	8857K39	83731-1872-07	Eaton Controls S. de R.L. de C.V.
Note: MS25126 INACTIVE FOR NEW DESIGN - USE MS24659 or MS24613			
MS25126-A1	8858K39	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-B4	8858K54	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-C1	8858K41	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-C2	8858K47	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-C3	8858K45	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-D1	8858K42	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-B1	8858K40	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-E1	8858K43	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-E2	8858K48	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-E3	8858K44	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-F7	8858K50	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-G11	8858K51	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-H7	8858K52	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-J4	8858K49	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-K11	8858K56	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-K8	8858K53	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-L10	8858K81	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-L5	8858K78	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-L6	8858K79	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-L9	8858K80	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-M11	8858K46	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25126-N11	8858K55	83731-1872-07	Eaton Controls S. de R.L. de C.V.

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Note: MS25127 INACTIVE FOR NEW DESIGN - USE MS24660 OR MS24614			
MS25127-A1	8859K39	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-B1	8859K40	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-B4	8859K54	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-C1	8859K41	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-C2	8859K47	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-C3	8859K45	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-D1	8859K42	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-E1	8859K43	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-E2	8859K48	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-E3	8859K44	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-F7	8859K50	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-G11	8859K51	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-H7	8859K52	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-J4	8859K49	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-K11	8859K56	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-K8	8859K53	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-L10	8859K81	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-L5	8859K78	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-L6	8859K79	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-L9	8859K80	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-M11	8859K46	83731-1873-07	Eaton Controls S. de R.L. de C.V.
MS25127-N11	8859K55	83731-1873-07	Eaton Controls S. de R.L. de C.V.
Note: MS25201 INACTIVE FOR NEW DESIGN - USE MS27407			
MS25201-4	8860K4	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25201-5	8860K5	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25201-6	8860K6	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25201-7	8860K7	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25201-8	8860K8	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS25201-9	8860K9	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS27716-21-1	1TW1-1	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27716-22-1	1TW1-2	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27716-23-1	1TW1-3	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27716-26-1	1TW1-8	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27716-27-1	1TW1-7	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27716-31-1	1TW1-5	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27716-21-1	T3-21111	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-22-1	T3-21121	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-23-1	T3-21131	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-26-1	T3-21141	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-27-1	T3-21151	ESA Ltr, 01 Nov 93	Otto Controls
MS27716-31-1	T3-21161	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-21-1	2TW1-1	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27717-22-1	2TW1-2	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27717-23-1	2TW1-3	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27717-26-1	2TW1-8	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27717-27-1	2TW1-7	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27717-31-1	2TW1-5	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27717-21-1	T3-21211	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-22-1	T3-21221	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-23-1	T3-21231	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-26-1	T3-21241	ESA Ltr, 01 Nov 93	Otto Controls
MS27717-27-1	T3-21251	ESA Ltr, 01 Nov 93	Otto Controls

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MS27717-31-1	T3-21261	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-21-1	11TW1-1	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27718-22-1	11TW1-2	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27718-23-1	11TW1-3	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27718-26-1	11TW1-8	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27718-27-1	11TW1-7	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27718-31-1	11TW1-5	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27718-21-1	T3-11111	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-22-1	T3-11121	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-23-1	T3-11131	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-26-1	T3-11141	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-27-1	T3-11151	ESA Ltr, 01 Nov 93	Otto Controls
MS27718-31-1	T3-11161	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-21-1	12TW1-1	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27719-22-1	12TW1-2	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27719-23-1	12TW1-3	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27719-26-1	12TW1-8	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27719-27-1	12TW1-7	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27719-31-1	12TW1-5	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27719-21-1	T3-11211	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-22-1	T3-11221	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-23-1	T3-11231	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-26-1	T3-11241	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-27-1	T3-11251	ESA Ltr, 01 Nov 93	Otto Controls
MS27719-31-1	T3-11261	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1A	11TW1-1A	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1B	11TW1-1B	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1D	11TW1-1D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1E	11TW1-1E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1F	11TW1-1F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1G	11TW1-1G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1H	11TW1-1H	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1J	11TW1-1J	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1K	11TW1-1K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1L	11TW1-1L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1M	11TW1-1M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1N	11TW1-1N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-21-1P	11TW1-1P	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-22-1D	11TW1-2D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-22-1F	11TW1-2F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-22-1G	11TW1-2G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-23-1D	11TW1-3D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-23-1F	11TW1-3F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-23-1G	11TW1-3G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-26-1F	11TW1-8F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-27-1E	11TW1-7E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-27-1L	11TW1-7L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-27-1N	11TW1-7N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-31-1E	11TW1-5E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-31-1F	11TW1-5F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-31-1K	11TW1-5K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-31-1L	11TW1-5L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-31-1M	11TW1-5M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27720-31-1N	11TW1-5N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
MS27720-21-1A	T3-31111-A	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1B	T3-31111-B	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1D	T3-31111-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1E	T3-31111-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1F	T3-31111-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1G	T3-31111-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1H	T3-31111-H	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1J	T3-31111-J	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1K	T3-31111-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1L	T3-31111-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1M	T3-31111-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1N	T3-31111-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-21-1P	T3-31111-P	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-22-1D	T3-31121-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-22-1F	T3-31121-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-22-1G	T3-31121-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-23-1D	T3-31131-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-23-1F	T3-31131-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-23-1G	T3-31131-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-26-1F	T3-31141-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-27-1E	T3-31151-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-27-1L	T3-31151-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-27-1N	T3-31151-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1E	T3-31161-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1F	T3-31161-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1K	T3-31161-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1L	T3-31161-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1M	T3-31161-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27720-31-1N	T3-31161-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1A	12TW1-1A	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1B	12TW1-1B	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1D	12TW1-1D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1E	12TW1-1E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1F	12TW1-1F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1G	12TW1-1G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1H	12TW1-1H	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1J	12TW1-1J	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1K	12TW1-1K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1L	12TW1-1L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1M	12TW1-1M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1N	12TW1-1N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1P	12TW1-1P	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-22-1D	12TW1-2D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-22-1F	12TW1-2F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-22-1G	12TW1-2G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-23-1D	12TW1-3D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-23-1F	12TW1-3F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-23-1G	12TW1-3G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-26-1F	12TW1-8F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-27-1E	12TW1-7E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-27-1L	12TW1-7L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-27-1N	12TW1-7N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-31-1E	12TW1-5E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-31-1F	12TW1-5F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-31-1K	12TW1-5K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-31-1L	12TW1-5L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
MS27721-31-1M	12TW1-5M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-31-1N	12TW1-5N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27721-21-1A	T3-31211-A	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1B	T3-31211-B	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1D	T3-31211-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1E	T3-31211-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1F	T3-31211-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1G	T3-31211-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1H	T3-31211-H	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1J	T3-31211-J	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1K	T3-31211-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1L	T3-31211-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1M	T3-31211-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1N	T3-31211-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-21-1P	T3-31211-P	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-22-1D	T3-31221-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-22-1F	T3-31221-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-22-1G	T3-31221-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-23-1D	T3-31231-D	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-23-1F	T3-31231-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-23-1G	T3-31231-G	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-26-1F	T3-31241-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-27-1E	T3-31251-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-27-1L	T3-31251-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-27-1N	T3-31251-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1E	T3-31261-E	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1F	T3-31261-F	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1K	T3-31261-K	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1L	T3-31261-L	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1M	T3-31261-M	ESA Ltr, 01 Nov 93	Otto Controls
MS27721-31-1N	T3-31261-N	ESA Ltr, 01 Nov 93	Otto Controls
MS27753-34	12TW1-12	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27753-35	12TW1-56	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27753-36	12TW1-72	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27753-38	12TW1-10	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27753-39	12TW1-50	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27753-40	12TW1-70	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38E	12TW1-10E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34A	12TW1-12A	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34B	12TW1-12B	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34D	12TW1-12D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34E	12TW1-12E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34F	12TW1-12F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34G	12TW1-12G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34H	12TW1-12H	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34J	12TW1-12J	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34K	12TW1-12K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34L	12TW1-12L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34M	12TW1-12M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34N	12TW1-12N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-34P	12TW1-12P	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-35E	12TW1-56E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-35F	12TW1-56F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-35K	12TW1-56K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-35L	12TW1-56L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control

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MS27754-35M	12TW1-56M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-35N	12TW1-56N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-36E	12TW1-72E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-36L	12TW1-72L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-36N	12TW1-72N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38A	12TW1-10A	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38B	12TW1-10B	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38D	12TW1-10D	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38F	12TW1-10F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38G	12TW1-10G	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38H	12TW1-10H	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38J	12TW1-10J	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38K	12TW1-10K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38L	12TW1-10L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38M	12TW1-10M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38N	12TW1-10N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-38P	12TW1-10P	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-39E	12TW1-50E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-39F	12TW1-50F	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-39K	12TW1-50K	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-39L	12TW1-50L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-39M	12TW1-50M	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-39N	12TW1-50N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-40E	12TW1-70E	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-40L	12TW1-70L	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27754-40N	12TW1-70N	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27790-34	2TW1-12	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27790-35	2TW1-56	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27790-36	2TW1-72	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27790-38	2TW1-10	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS27790-39	2TW1-50	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
MS29970-40	2TW1-70	ESA Ltr, 02 Mar 93	Honeywell Sensing and Control
Note: MS35058 INACTIVE FOR NEW DESIGN - USE MS24523 OR MS25306			
MS35058-21	8800K16	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-22	8801K22	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-23	8810K15	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-24	8801K23	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-25	8813K18	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-26	8804K13	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-27	8812K14	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-28	8811K18	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-29	8813K17	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-30	8811K17	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35058-31	8809K16	83731-1872-07	Eaton Controls S. de R.L. de C.V.
Note: MS35059 INACTIVE FOR NEW DESIGN - USE MS24524 OR MS25307			
MS35059-21	8820K16	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-22	8822K20	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-23	8824K14	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-24	8822K21	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-25	8828K12	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-26	8830K13	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-27	8834K5	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-28	8826K14	83731-1872-07	Eaton Controls S. de R.L. de C.V.

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MS35059-29	8828K13	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-30	8826K15	83731-1872-07	Eaton Controls S. de R.L. de C.V.
MS35059-31	8832K6	83731-1872-07	Eaton Controls S. de R.L. de C.V.

Manufacturer and Supplier Location Information

Manufacturer: Eaton Corporation (CAGE Code: 55588)

Location: Aerospace and Commercial Continued Controls Div., 1100 Preston Street, Selma, NC 27576-0057, US

Plant Locations:
1. Same Address as Manufacturer
2. Eaton Controls S. de R.L. de C.V., CAGE Code: SCT67, Avenida Chapultepec s/n Parque Industial Colonial, Reynosa, Tamaulipas 88570, Mexico

Manufacturer: Eaton Corporation (CAGE Code: 81640)

Location: Sensing and Controls Division, 2250 Whitfield Avenue, Sarasota, FL 34243-3962, US

Plant Locations:
1. Same Address as Manufacturer
2. Eaton Corporation (Mexico), Santa Rosalia 8707, Tijuana, Mexico

Manufacturer: Honeywell Sensing and Control (CAGE Code: 91929)

Location: 11 West Spring Street, Freeport, IL 61032-4353, US

Plant Location: Same Address as Manufacturer

Manufacturer: ITT Industries/C & K Switch Products (CAGE Code: 09353)

Location: 15 Riverdale Avenue, Newton, MA 02458-1057, US

Plant Location: ITT Industries/C & K Switch Products, Radial a San antonio de Belen 700 mts. Norte de Marta Pozos de Santa Ana, San Jose, Costa Rica

Manufacturer: Otto Controls (CAGE Code: 21649)

Location: 2 East Main Street, Carpentersville, IL 60110-2624, US

Plant Location: Same Address as Manufacturer