

Product Compliance Declaration

Please see www.molex.com for the most up-to-date information.

Contact Information

Name Molex Product Compliance **E-Mail** Product.Compliance@molex.com

Part Information

Part Number 0473521001 **Part Weight** 0.526565G

Part Name TFR PUSH PUSH TYPE VSS DEECT SWITCH

Product Composition

Name	Type	CAS Number	Proportion (% Total)	Mass (Grams)
TFR PUSH PUSH TYPE VSS DEECT SWITCH	Assembly		100	0.526565
INSERT MOLD W/DETECT PIN FOR TFR	Assembly		28.7977	0.151639
TML TFR CARD PUSH PUSH TYPE WITH PIN	Component		3.4221	0.018019
Phosphor Bronze 8% Unplated	Material		3.4089	0.01795
Copper	Substance	7440-50-8	3.1297	0.01648
Tin	Substance	7440-31-5	0.2727	0.001436
Phosphorus	Substance	7723-14-0	0.0065	0.000034
Gold Plating	Material		0.0002	8E-07
Cobalt	Substance	7440-48-4	4E-07	2E-09
Nickel	Substance	7440-02-0	4E-07	2E-09
Gold	Substance	7440-57-5	0.0002	8E-07
Nickel Plating	Material		0.0081	0.000042
Nickel	Substance	7440-02-0	0.0081	0.000042

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Name	Type	CAS Number	Proportion (% Total)	Mass (Grams)
Further Additives, not to declare	Substance	system	8E-07	4E-09
Tin Plating	Material		0.005	0.000026
Tin	Substance	7440-31-5	0.005	0.000026
LCP-(GF20+MD15) BLACK	Material		21.9536	0.1156
LCP	Substance		13.8308	0.072828
GF-Fibre	Substance		4.3907	0.02312
Mineral powder	Substance		3.293	0.01734
Further Additives, not to declare	Substance	system	0.2195	0.001156
Carbon black	Substance	1333-86-4	0.2195	0.001156
TML TFR CARD PUSH PUSH TYPE WITH PIN	Component		3.4221	0.018019
Phosphor Bronze 8% Unplated	Material		3.4089	0.01795
Copper	Substance	7440-50-8	3.1297	0.01648
Tin	Substance	7440-31-5	0.2727	0.001436
Phosphorus	Substance	7723-14-0	0.0065	0.000034
Gold Plating	Material		0.0002	8E-07
Cobalt	Substance	7440-48-4	4E-07	2E-09
Nickel	Substance	7440-02-0	4E-07	2E-09
Gold	Substance	7440-57-5	0.0002	8E-07
Nickel Plating	Material		0.0081	0.000042
Nickel	Substance	7440-02-0	0.0081	0.000042
Further Additives, not to declare	Substance	system	8E-07	4E-09
Tin Plating	Material		0.005	0.000026
Tin	Substance	7440-31-5	0.005	0.000026
DETECT PIN FOR TFR PUSH PUSH TYPE	Component		1.2365	0.006511
Phosphor Bronze 8% Unplated	Material		1.1314	0.005958
Copper	Substance	7440-50-8	1.0387	0.00547
Tin	Substance	7440-31-5	0.0905	0.000477
Phosphorus	Substance	7723-14-0	0.0021	0.000011
Nickel Plating	Material		0.06	0.000316

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Name	Type	CAS Number	Proportion (% Total)	Mass (Grams)
Nickel	Substance	7440-02-0	0.06	0.000316
Further Additives, not to declare	Substance	system	6E-06	3E-08
Tin Plating	Material		0.0439	0.000231
Tin	Substance	7440-31-5	0.0439	0.000231
Gold Plating	Material		0.0012	0.000006
Cobalt	Substance	7440-48-4	3E-06	2E-08
Nickel	Substance	7440-02-0	3E-06	2E-08
Gold	Substance	7440-57-5	0.0012	0.000006
SHELL TFR CARD PUSH PUSH TYPE WITH PIN	Assembly		48.2393	0.254011
SHELL TFR CARD PUSH PUSH TYPE WITH PIN	Component		45.1796	0.2379
Stainless Steel Unplated	Material		45.1796	0.2379
Chromium	Substance	7440-47-3	8.5841	0.045201
Nickel	Substance	7440-02-0	4.1791	0.022006
Iron	Substance	7439-89-6	32.4164	0.170693
Nickel Plating	Material		3.0576	0.0161
Nickel	Substance	7440-02-0	3.0572	0.016098
Further Additives, not to declare	Substance	system	0.0003	0.000002
Gold Plating	Material		0.0022	0.000011
Cobalt	Substance	7440-48-4	5E-06	3E-08
Nickel	Substance	7440-02-0	5E-06	3E-08
Gold	Substance	7440-57-5	0.0022	0.000011
HEART CAM TFR CARD PUSH PUSH TYPE	Component		4.7478	0.025
LCP GF/MF BLACK	Material		4.7478	0.025
Limestone	Substance	1317-65-3	0.8071	0.00425
GF-Fibre	Substance		1.0445	0.0055
LCP	Substance		2.8344	0.014925
Misc.	Substance	system	0.0617	0.000325
CAM PIN FOR TFR CARD PUSH PUSH TYPE	Component		0.9503	0.005004
Stainless Steel Unplated	Material		0.9503	0.005004

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Name	Type	CAS Number	Proportion (% Total)	Mass (Grams)
Chromium	Substance	7440-47-3	0.1806	0.000951
Nickel	Substance	7440-02-0	0.0879	0.000463
Iron	Substance	7439-89-6	0.6818	0.00359
SPRING TFR CARD PUSH PUSH TYPE	Component		4.5578	0.024
STAINLESS STEEL	Material		4.5578	0.024
Iron	Substance	7439-89-6	3.261	0.017171
Chromium	Substance	7440-47-3	0.8245	0.004342
Nickel	Substance	7440-02-0	0.386	0.002033
Sulphur	Substance	7704-34-9	9E-05	5E-07
Phosphorus	Substance	7723-14-0	0.0015	0.000008
Manganese	Substance	7439-96-5	0.057	0.0003
Silicon	Substance	7440-21-3	0.0242	0.000127
Carbon	Substance	7440-44-0	0.0036	0.000019
""A"" FUMIO Dry Lubricant"	Component		11.4706	0.0604
florine Lubricant	Material		11.4706	0.0604
Misc.	Substance	system	0.8029	0.004228
Sodium-hydrogendifluoride	Substance	1333-83-1	8.6029	0.0453
N-Phenyl-1,1,3,3-tetramethylbutyl-naphthalen-1-amine	Substance	68259-36-9	2.0647	0.010872

ROHS Declaration Information

Regulatory Revision EU 2015/863

Compliance Status Compliant

Contained Substances Exceeding Threshold

None

Exemptions

None

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REACH-SVHC Declaration Information

Regulatory Revision D(2021)4569-DC (8 July 2021)

Contained Substances Exceeding Threshold

None

GADSL Declaration Information

Regulatory Revision GADSL imported from IMDS

Contained Substances Exceeding Threshold

Substance Group	Substance Location	Threshold (PPM)	Concentration (PPM)	Intentionally Added
copper	C5210	*Note	918,100	Yes
Cobalt	Gold Plating	*Note	2,500	Yes
nickel powder [particle diameter < 1 mm]	Nickel Plating	*Note	1,000,000	Yes
nickel powder [particle diameter < 1 mm]	Gold Plating	*Note	2,500	Yes
nickel powder [particle diameter < 1 mm]	Stainless Steel Unplated	*Note	92,500	Yes

*Note: For GADSL substance declarable/prohibited threshold values, please reference <http://www.gadsl.org/>

Exemptions

Part Name	Exemption
Nickel Plating	33 Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm ² /week)
Gold Plating	33 Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm ² /week)

HFLH Declaration Information

Regulatory Revision IEC 61249-2-21


Contained Substances Exceeding Threshold

None

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China ROHS Declaration Information

Part Number 0473521001		Hazardous Substances				
Part Name TFR PUSH PUSH TYPE VSS DEECT SWITCH						
Part Information						
Components	Lead	Mercury	Cadmium	Hex. Chromium	PBB	PBDE
TFR PUSH PUSH TYPE VSS DEECT SWITCH	○	○	○	○	○	○
INSERT MOLD W/DETECT PIN FOR TFR	○	○	○	○	○	○
TML TFR CARD PUSH PUSH TYPE WITH PIN	○	○	○	○	○	○
TML TFR CARD PUSH PUSH TYPE WITH PIN	○	○	○	○	○	○
DETECT PIN FOR TFR PUSH PUSH TYPE	○	○	○	○	○	○
SHELL TFR CARD PUSH PUSH TYPE WITH PIN	○	○	○	○	○	○
SHELL TFR CARD PUSH PUSH TYPE WITH PIN	○	○	○	○	○	○
HEART CAM TFR CARD PUSH PUSH TYPE	○	○	○	○	○	○
CAM PIN FOR TFR CARD PUSH PUSH TYPE	○	○	○	○	○	○
SPRING TFR CARD PUSH PUSH TYPE	○	○	○	○	○	○
""A"" FUMIO Dry Lubricant"	○	○	○	○	○	○

Additional Information

Annex XVII to REACH (76/769/EEC)	Compliant
Regulation (EU) 2019/1021 (POP)	Compliant

Process Information

Component Plating / Surface Finish	Au
Termination Base Alloy	P-Bronze
Solder Alloy	N/A
Process Capability	REFLOW
Maximum Exposure Time (seconds)	010

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Maximum Process Temperature (C)	250
Maximum Cycles at Reflow Temperature	002
J-STD-020 Moisture Sensitivity Level	N/A

Jan 20, 2022

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