

# MATERIAL DECLARATION SHEET



|                 |                    |     |     |                                                                                     |
|-----------------|--------------------|-----|-----|-------------------------------------------------------------------------------------|
| Material Number | 3543S-1-XXXX       |     |     |  |
| Product Line    | Sensors & Controls |     |     |                                                                                     |
| Compliance Date | May 31, 2006       |     |     |                                                                                     |
| RoHS Compliant  | Yes                | MSL | N/A |                                                                                     |

| No. | Construction Element (subpart) | Homogeneous Material        | Material weight [g] | Homogeneous Material/ Substances | CASRN if applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-----|--------------------------------|-----------------------------|---------------------|----------------------------------|---------------------|------------------|-----------------------------------|-------------------------------|
| 1   | Hex Nut                        | Brass C260                  | 1.25                | Copper                           | 7440-50-8           | 70               | 4.18                              | 5.97                          |
|     |                                |                             |                     | Zinc                             | 7440-66-6           | 30               | 1.79                              |                               |
|     |                                | Plating                     | 0.0900              | Nickel                           | 7440-02-0           | 100              | 0.43                              | 0.43                          |
| 2   | Lock Washer                    | Carbon Steel C1050          | 0.17                | Carbon                           | 7440-44-0           | 0.5              | 0.004                             | 0.81                          |
|     |                                |                             |                     | Iron                             | 7439-89-6           | 98.7             | 0.80                              |                               |
|     |                                |                             |                     | Manganese                        | 7439-96-5           | 0.75             | 0.01                              |                               |
|     |                                |                             |                     | Phosphorus                       | 7723-14-0           | 0.02             | 0.0002                            |                               |
|     |                                |                             |                     | Sulphur                          | 7704-34-9           | 0.03             | 0.0002                            |                               |
|     |                                | Plating                     | 0.0001              | Nickel                           | 10101-97-0          | 100              | 0.0005                            | 0.0005                        |
| 3   | Strap                          | Nickel Silver Alloy CDA 752 | 2.30                | Copper                           | 7440-50-8           | 65               | 7.14                              | 10.99                         |
|     |                                |                             |                     | Silver                           | 7440-22-4           | 0.05             | 0.01                              |                               |
|     |                                |                             |                     | Iron                             | 7439-89-6           | 0.125            | 0.01                              |                               |
|     |                                |                             |                     | Manganese                        | 7439-96-5           | 0.25             | 0.03                              |                               |
|     |                                |                             |                     | Nickel                           | 7440-02-0           | 18               | 1.98                              |                               |
|     |                                |                             |                     | Cobalt                           | 7440-48-4           | 0.5              | 0.05                              |                               |
|     |                                |                             |                     | Lead                             | 7439-92-1           | 0.025            | 0.003                             |                               |
|     |                                |                             |                     | Zinc (Metal)                     | 7440-66-6           | 15.8             | 1.74                              |                               |
|     |                                |                             |                     | Misc. not to Declare             | System              | 0.25             | 0.03                              |                               |
| 4   | Bushing                        | Aluminum 2011               | 1.14                | Aluminum (Metal)                 | 7429-90-5           | 92.93            | 5.07                              | 5.45                          |
|     |                                |                             |                     | Bismuth                          | 7440-69-9           | 0.4              | 0.02                              |                               |

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|---|--------------|--------------------------------------------|----------|-----------------------------------|------------|--------|--------|--------|
|   |              |                                            |          | Copper                            | 7440-50-8  | 5.5    | 0.30   | 0.48   |
|   |              |                                            |          | Iron                              | 7439-89-6  | 0.345  | 0.02   |        |
|   |              |                                            |          | Lead                              | 7439-92-1  | 0.4    | 0.02   |        |
|   |              |                                            |          | Silicon                           | 7440-21-3  | 0.2    | 0.01   |        |
|   |              |                                            |          | Zinc (Metal)                      | 7440-66-6  | 0.15   | 0.01   |        |
|   |              |                                            |          | Misc, Not to Declare              | N/A        | 0.075  | 0.004  |        |
|   |              | Plating                                    | 0.10     | Nickel                            | 7440-02-0  | 100    | 0.48   |        |
| 5 | Housing      | Shinkong                                   | 2.54     | PBT                               | 26062-94-2 | 53.7   | 6.51   | 12.12  |
|   |              |                                            |          | Glass Fiber                       | 65997-17-3 | 30     | 3.64   |        |
|   |              |                                            |          | Brominated Epoxy Resin            | 68928-70-1 | 10.5   | 1.27   |        |
|   |              |                                            |          | Antimony Trioxide                 | 1309-64-4  | 3      | 0.36   |        |
|   |              |                                            |          | Pigment Blue 15                   | 147-14-8   | 0.8    | 0.10   |        |
|   |              |                                            |          | Further Additives, not to Declare | N/A        | 2      | 0.24   |        |
| 6 | Element Assy | Mandrel Wire<br>Annealed Copper<br>Wire    | 2.8      | Copper                            | 7440-50-8  | 100.00 | 13.36  | 13.36  |
|   |              | Coating                                    | 0.000031 | Polyamide                         | 63428-83-1 | 100.00 | 0.0001 | 0.0001 |
|   |              | Resistive Wire<br>Nickel/Chromium<br>Alloy | 0.30     | Nickel                            | 7440-02-0  | 74.00  | 1.06   | 1.43   |
|   |              |                                            |          | Copper                            | 7440-50-8  | 1.00   | 0.01   |        |
|   |              |                                            |          | Chromium                          | 7440-47-3  | 21.00  | 0.30   |        |
|   |              |                                            |          | Aluminum                          | 7429-90-5  | 1.00   | 0.01   |        |
|   |              |                                            |          | Silicon                           | 7440-21-3  | 1.00   | 0.01   |        |
|   |              |                                            |          | Cobalt                            | 7440-48-4  | 1.00   | 0.01   |        |
|   |              |                                            |          | Manganese                         | 7439-96-5  | 1.00   | 0.01   |        |
|   |              | Hi-Thermo                                  | 0.094    | Alkyd Resin                       | 63148-69-6 | 99.5   | 0.45   | 0.45   |
|   |              |                                            |          | Misc, Not to Declare              | N/A        | 0.5    | 0.002  |        |
| 7 | Varnish      |                                            |          |                                   |            |        |        |        |

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|    |                          |                                                |       |                                               |            |       |        |       |
|----|--------------------------|------------------------------------------------|-------|-----------------------------------------------|------------|-------|--------|-------|
|    |                          | Pigment                                        | 0.006 | Basic Violet 11.1                             | 73398-89-7 | 99.5  | 0.03   |       |
|    |                          |                                                |       | Misc. Not to Declare                          | N/A        | 0.5   | 0.0001 | 0.03  |
| 8  | Terminal Cover<br>Molded | Nylatron                                       | 0.24  | Nylon 6.6<br>(Polyhexamethylene<br>Adipamide) | 32131-17-2 | 66    | 0.76   | 1.15  |
|    |                          |                                                |       | Glass Fiber                                   | 65997-17-3 | 32    | 0.37   |       |
|    |                          |                                                |       | Molybdenum Disulfide                          | 1317-33-5  | 2     | 0.02   |       |
|    |                          | Terminal X 2<br>Nickel Silver Alloy<br>CDA 752 | 0.08  | Copper                                        | 7440-50-8  | 65    | 0.23   | 0.36  |
|    |                          |                                                |       | Silver                                        | 7440-22-4  | 0.05  | 0.0002 |       |
|    |                          |                                                |       | Iron                                          | 7439-89-6  | 0.125 | 0.0004 |       |
|    |                          |                                                |       | Manganese                                     | 7439-96-5  | 0.25  | 0.001  |       |
|    |                          |                                                |       | Nickel                                        | 7440-02-0  | 18    | 0.06   |       |
|    |                          |                                                |       | Cobalt                                        | 7440-48-4  | 0.5   | 0.002  |       |
|    |                          |                                                |       | Lead                                          | 7439-92-1  | 0.025 | 0.0001 |       |
|    |                          |                                                |       | Zinc (Metal)                                  | 7440-66-6  | 15.8  | 0.06   |       |
|    |                          |                                                |       | Misc. not to Declare                          | System     | 0.25  | 0.001  |       |
|    |                          | Plating                                        | 0.01  | Gold                                          | 7440-57-5  | 100   | 0.07   | 0.07  |
|    |                          | Silver Alloy<br>A56T                           | 0.01  | Silver                                        | 7440-22-4  | 56    | 0.04   | 0.06  |
|    |                          |                                                |       | Copper                                        | 7440-50-8  | 22    | 0.01   |       |
|    |                          |                                                |       | Zinc                                          | 7440-66-6  | 17    | 0.01   |       |
|    |                          |                                                |       | Tin                                           | 7440-31-5  | 5     | 0.003  |       |
| 9  | Tab                      | Silver Alloy A56T                              | 0.013 | Silver                                        | 7440-22-4  | 56    | 0.04   | 0.06  |
|    |                          |                                                |       | Copper                                        | 7440-50-8  | 22    | 0.01   |       |
|    |                          |                                                |       | Zinc                                          | 7440-66-6  | 17    | 0.01   |       |
|    |                          |                                                |       | Tin                                           | 7440-31-5  | 5     | 0.003  |       |
|    |                          | Strip                                          | 0.001 | Nickel                                        | 7440-02-0  | 100   | 0.005  | 0.005 |
| 10 | Shaft                    | Brass 360                                      | 7.00  | Copper                                        | 7440-50-8  | 61.50 | 20.55  | 33.41 |
|    |                          |                                                |       | Zinc                                          | 7440-66-6  | 35.40 | 11.83  |       |

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|    |                |                        |       |                                   |            |        |        |      |
|----|----------------|------------------------|-------|-----------------------------------|------------|--------|--------|------|
|    |                |                        |       | Lead                              | 7439-92-1  | 3.10   | 1.04   |      |
|    |                | Plating                | 0.01  | Nickel                            | 7440-02-0  | 100.00 | 0.05   | 0.05 |
| 11 | Rotor Molded   | Shinkong               | 1.16  | PBT                               | 26062-94-2 | 53.7   | 2.97   | 5.54 |
|    |                |                        |       | Glass Fiber                       | 65997-17-3 | 30     | 1.66   |      |
|    |                |                        |       | Brominated Epoxy Resin            | 68928-70-1 | 10.5   | 0.58   |      |
|    |                |                        |       | Antimony Trioxide                 | 1309-64-4  | 3      | 0.17   |      |
|    |                |                        |       | Pigment Blue 15                   | 147-14-8   | 0.8    | 0.04   |      |
|    |                |                        |       | Further Additives, Not to Declare | N/A        | 2      | 0.11   |      |
| 12 | Slider X 2     | Shinkong               | 0.30  | PBT                               | 26062-94-2 | 53.7   | 0.77   | 1.43 |
|    |                |                        |       | Glass Fiber                       | 65997-17-3 | 30     | 0.43   |      |
|    |                |                        |       | Brominated Epoxy Resin            | 68928-70-1 | 10.5   | 0.15   |      |
|    |                |                        |       | Antimony Trioxide                 | 1309-64-4  | 3      | 0.04   |      |
|    |                |                        |       | Pigment Blue 15                   | 147-14-8   | 0.8    | 0.01   |      |
|    |                |                        |       | Further Additives, Not to Declare | N/A        | 2      | 0.03   |      |
| 13 | Contact Spring | PAL # 6                | 0.010 | Palladium                         | 7440-05-3  | 44     | 0.02   | 0.05 |
|    |                |                        |       | Silver                            | 7440-22-4  | 38     | 0.02   |      |
|    |                |                        |       | Copper                            | 7440-50-8  | 16     | 0.01   |      |
|    |                |                        |       | Platinum                          | 7440-06-4  | 1      | 0.0005 |      |
|    |                |                        |       | Nickel                            | 7440-02-0  | 1      | 0.0005 |      |
| 14 | Collector Bar  | Nickel /Silver<br>C770 | 0.08  | Copper                            | 7440-50-8  | 65     | 0.24   | 0.36 |
|    |                |                        |       | Silver                            | 7440-22-4  | 0.05   | 0.0002 |      |
|    |                |                        |       | Iron                              | 7439-89-6  | 0.125  | 0.0005 |      |
|    |                |                        |       | Manganese                         | 7439-96-5  | 0.25   | 0.001  |      |
|    |                |                        |       | Nickel                            | 7440-02-0  | 18     | 0.07   |      |

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|    |                |                     |       |                                   |            |       |          |      |
|----|----------------|---------------------|-------|-----------------------------------|------------|-------|----------|------|
|    |                |                     |       | Cobalt                            | 7440-48-4  | 0.5   | 0.002    |      |
|    |                |                     |       | Lead                              | 7439-92-1  | 0.025 | 0.0001   |      |
|    |                |                     |       | Zinc (Metal)                      | 7440-66-6  | 15.8  | 0.06     |      |
|    |                |                     |       | Misc. not to Declare              | System     | 0.25  | 0.001    |      |
|    |                | Plating             | 0.002 | Gold                              | 7440-57-5  | 100   | 0.01     | 0.01 |
| 15 | Wiper Terminal | Brass C260          | 0.3   | Copper                            | 7440-50-8  | 70    | 1.00     | 1.43 |
|    |                |                     |       | Zinc                              | 7440-66-6  | 30    | 0.43     |      |
|    |                | Under Plating       | 0.012 | Nickel                            | 7440-02-0  | 100   | 0.06     | 0.06 |
|    |                | Plating             | 0.03  | Gold                              | 7440-57-5  | 100   | 0.14     | 0.14 |
| 16 | Cover Molded   | Shinkong            | 0.68  | PBT                               | 26062-94-2 | 53.7  | 1.74     | 3.25 |
|    |                |                     |       | Glass Fiber                       | 65997-17-3 | 30    | 0.97     |      |
|    |                |                     |       | Brominated Epoxy Resin            | 68928-70-1 | 10.5  | 0.34     |      |
|    |                |                     |       | Antimony Trioxide                 | 1309-64-4  | 3     | 0.10     |      |
|    |                |                     |       | Pigment Blue 15                   | 147-14-8   | 0.8   | 0.03     |      |
|    |                |                     |       | Further Additives, Not to Declare | N/A        | 2     | 0.06     |      |
| 17 | C Ring         | Stainless Steel 420 | 0.02  | Carbon                            | 7440-44-0  | 0.15  | 0.0001   | 0.10 |
|    |                |                     |       | Silicon                           | 7439-96-5  | 1.00  | 0.001    |      |
|    |                |                     |       | Manganese                         | 7440-21-3  | 1.00  | 0.001    |      |
|    |                |                     |       | Phosphorus                        | 7723-14-0  | 0.04  | 0.00004  |      |
|    |                |                     |       | Nickel                            | 7704-34-9  | 0.30  | 0.0003   |      |
|    |                |                     |       | Chromium                          | 7440-47-3  | 14.00 | 0.01     |      |
|    |                |                     |       | Iron                              | 7439-89-6  | 83.51 | 0.08     |      |
| 18 | Washer         | Stainless Steel 301 | 0.002 | Carbon                            | 7440-44-0  | 0.15  | 0.00001  | 0.01 |
|    |                |                     |       | Manganese                         | 7439-96-5  | 2     | 0.0002   |      |
|    |                |                     |       | Phosphorus                        | 7723-14-0  | 0.045 | 0.000004 |      |

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|    |       |       |      |                                                                                    |             |        |          |      |
|----|-------|-------|------|------------------------------------------------------------------------------------|-------------|--------|----------|------|
|    |       |       |      | Sulfur                                                                             | 7704-34-9   | 0.03   | 0.000003 |      |
|    |       |       |      | Silicon                                                                            | 7440-21-3   | 1      | 0.0001   |      |
|    |       |       |      | Chromium                                                                           | 7440-47-3   | 17     | 0.0016   |      |
|    |       |       |      | Nickel                                                                             | 7440-02-0   | 7      | 0.0007   |      |
|    |       |       |      | Iron                                                                               | 7439-89-6   | 72.775 | 0.01     |      |
| 19 | Lube  | Lube  | 0.08 | Decanoic Acid, Mixed Esters With Heptanoic Acid, Octanoic Acid, Trimethylolpropane | 68130-53-0  | 54.4   | 0.21     | 0.38 |
|    |       |       |      | Lithium 12-Hydroxystearate                                                         | 7620-77-1   | 5.7    | 0.02     |      |
|    |       |       |      | Isohexadecyl-Isooctadecanoate                                                      | 52006-45-8  | 33.7   | 0.13     |      |
|    |       |       |      | Polyisobutylene                                                                    | 9003-27-4   | 6.2    | 0.02     |      |
| 20 | Lube  | Lube  | 0.07 | 1-Decene, Tetramer, Mixed With 1-Decene Trimer, Hydorgenated                       | 68649-12-7  | 58.80  | 0.20     | 0.33 |
|    |       |       |      | 1-Propene, Polymer with Ethene                                                     | 9010-79-1   | 30.80  | 0.10     |      |
|    |       |       |      | Silica, Amorphous Fumed                                                            | 112945-52-5 | 5.40   | 0.02     |      |
|    |       |       |      | Polytetrafluoroethylene                                                            | 9002-84-0   | 5.00   | 0.02     |      |
| 21 | Epoxy | Epoxy | 0.05 | Bisphenol A Diglycidyl Ether Resin Resin                                           | 25068-38-6  | 44     | 0.11     | 0.24 |
|    |       |       |      | Alumina Trihydrate                                                                 | 21645-51-2  | 11     | 0.03     |      |
|    |       |       |      | Antimony trioxide                                                                  | 1309-64-4   | 11     | 0.03     |      |
|    |       |       |      | Diglycidyl Ether of Polypropylene Glycol                                           | 9072-62-2   | 10.2   | 0.02     |      |
|    |       |       |      | Titanium Dioxide                                                                   | 13463-67-7  | 0.9    | 0.002    |      |
|    |       |       |      | Kaolin Clay                                                                        | 1332-58-7   | 6      | 0.01     |      |
|    |       |       |      | Epoxy Resin                                                                        | 67924-34-9  | 6.1    | 0.01     |      |

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|  |  |  |                     |                             |           |     |       |  |
|--|--|--|---------------------|-----------------------------|-----------|-----|-------|--|
|  |  |  |                     | Magnesium Aluminum Silicate | 1302-88-1 | 9.5 | 0.02  |  |
|  |  |  |                     | Phthalocyanine Blue         | 147-14-8  | 1.3 | 0.003 |  |
|  |  |  | <b>Total Weight</b> | <b>20.95</b>                |           |     |       |  |

This Document was updated on: **07/29/2025**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.