



New announcement about EU-RoHS Directive

Recently, the EU-RoHS Directive released a new announcement [(EU) 2019/171, issued February 5, 2019] and the exemption for cadmium and its compounds contained in electrical contacts has been updated. After the expiration date of exemption for each category, some of our products will no longer be EU-RoHS compliant. Details will be provided below.

➤ **Outline of EU-RoHS Directive (2019/171, issued February 5, 2019)**

Previously, cadmium in electrical contacts was recognized as Exemption 8(b) in Electrical and Electronic Equipment (EEE) Categories 1~7 and 10. Now the exemption 8(b) will expire on 2/29/2020 and there is a division into two categories, 8(b) and 8(b)-1, depending on the use of the final product. See next page for products that fall under exemption 8(b)-1. Each of the EEE categories and the expiration dates are shown on the following table.

Category	Electrical and Electronic Equipment Category (Annex 1)	Before	After	
		8(b)	*8(b)	*8(b)-1
1	Large household appliances (LHA)	Exempt	Ending 2/29/2020	7/21/2021 See page 2 for products categorized in 8(b)-1
2	Small household appliances (SHA)			
3	IT and telecommunications equipment			
4	Consumer equipment			
5	Lighting equipment			
6	Electrical and electronic tools			
7	Toys, leisure and sports equipment			
8	Medical devices	7/21/2021	—	
	In vitro diagnostic medical devices	7/21/2023	—	
9	Monitoring and control instruments (for consumer products)	7/21/2021	—	
	Industrial monitoring and control instruments	7/21/2024	—	
10	Automatic dispensers	Exempt	Ending 2/29/2020	7/21/2021 (Same as above)
11	Other EEE not covered in any of categories above	7/21/2024	—	

* Dates in these columns indicate the expiration dates for cadmium in the contacts.

EU-RoHS Exemption 8(b)-1

As of 3/1/2020, cadmium and its compounds in electrical contacts used for the following applications are classified in 8(b)-1.

- Breakers, heat sensing control devices, thermal motor protectors (excluding sealed thermal motor protectors)
- AC rated switches (AC250V 6A or more, AC125V 12A or more)
- DC rated switches (DC18V 20A or more)
- Switches that use a voltage supply frequency of 200Hz or more

The exemption will continue until at least 7/21/2021 for switches with above conditions.

All other applications are classified as 8(b).

For details on the official European Union Gazette, see the following:

<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32019L0171&from=EN>

➤ **EU-RoHS Directive (2019/171) and the Scope of NKK's Products**

As shown in Change Notice CN-0352, all of NKK's standard products are below the maximum levels for ten EU-RoHS directive regulated substances.

According to the new EU-RoHS Directive [(EU) 2019/171], if the products contain cadmium and its compounds and the EEE is categorized as 1~7 or 10, the result will be restrictions on distribution, shipping or sales of the products in the EU. Some of NKK's products contain 100 ppm or more of cadmium in the contact area, under exemption 8(b) and the product may no longer be EU-RoHS compliant depending on the EEE category. If you use these products, confirm that the cadmium content is compatible with your equipment and application.

➤ **Applicable Part Numbers**

All products that contain cadmium in the electrical contacts and that are categorized as 1~7 or 10 in the EEE are subject to the regulations after 3/1/2020. Cadmium is used in the contacts on some of the series below.

- MLW Rocker Switches
- M Series Toggle/Rocker Switches
- M2T Series Toggle/Rocker Switches
- CWSC Series Rocker Switches
- S Series Toggles

See attached list for effected part numbers.

Contact NKK Switches if more details are needed.

Part number list which contains cadmium in the electrical contacts

Note 1: List of products that contains cadmium in the electrical contacts and subjected to the RoHS (EU) 2019/171 regulations after 3/1/2020.

Note 2: Listed only part numbers that NKK Switches of America has sold. Inactive part numbers do not appear on this list.

Note 3: Contact NKK Switches (engineering@nkkswitches.com) for further questions or possible alternate options.

<u>M2T Toggle/Rocker</u>	
STANDARD	M2T19S4A5G30
STANDARD	M2T19S4A5G40
STANDARD	M2T19S4A5W13
STANDARD	M2T19SA5G03
STANDARD	M2T19SA5W03
STANDARD	M2T19TXG13
STANDARD	M2T19TXG13-DA
STANDARD	M2T19TXG13-EA
STANDARD	M2T19TXG13-GA
STANDARD	M2T19TXG30
STANDARD	M2T19TXG41
STANDARD	M2T19TZG23
STANDARD	M2T19TZG23-JA
STANDARD	M2T29S4A5G30
STANDARD	M2T29S4A5G40
STANDARD	M2T29S4A5W13
STANDARD	M2T29SA5G03
STANDARD	M2T29SA5W03
STANDARD	M2T29TXA13
STANDARD	M2T29TXA13-DC
STANDARD	M2T29TXW13
STANDARD	M2T29TXW13-DC

<u>MLW Rocker</u>	
STANDARD	MLW3019
STANDARD	MLW3019-00-PB-1A
STANDARD	MLW3019-00-PC-1A
STANDARD	MLW3019-00-PF-1A
STANDARD	MLW3019-00-PG-1A
STANDARD	MLW3019-00-RA-1A
STANDARD	MLW3019-00-RC-2A
STANDARD	MLW3019-12-PF-1A
STANDARD	MLW3019-C-SB-1B
STANDARD	MLW3019-E-LE-1A
STANDARD	MLW3019-F-LF-2A
STANDARD	MLW3020

STANDARD	MLW3020-00-PA-1A
STANDARD	MLW3020-00-PA-1B
STANDARD	MLW3020-00-PC-1A
STANDARD	MLW3020-00-PE-1A
STANDARD	MLW3020-00-RA-1A
STANDARD	MLW3020-00-RC-1A
STANDARD	MLW3020-06-RD-2A
STANDARD	MLW3020-12-PB-1A
STANDARD	MLW3020-12-RF-1A
STANDARD	MLW3020-C-LB-1A
STANDARD	MLW3020-C-LC-1A
STANDARD	MLW3020-F-LF-2A
STANDARD	MLW3020-N-RC-2A
STANDARD	MLW3029
STANDARD	MLW3029/U
STANDARD	MLW3029-00-RB-1A
STANDARD	MLW3029-00-RC-1A
STANDARD	MLW3029-090-2A
STANDARD	MLW3029-090-2A/1
STANDARD	MLW3029-12-RB-1A
STANDARD	MLW3029-28-RB-1A
STANDARD	MLW3029-28-RC-2A
STANDARD	MLW3029-F-SF-2A
CUSTOM	MLW3029X003

M Toggle/Rocker

STANDARD	M2019B2B1A02
STANDARD	M2019B2B1A02/UC
STANDARD	M2019B2B1G01
STANDARD	M2019B2B1W01
STANDARD	M2019B2B3A01
STANDARD	M2019B2B3W01
STANDARD	M2019BB1W01
STANDARD	M2019BB1W01-RE
STANDARD	M2019BB1W03
CUSTOM	M2019BB1W40/305
STANDARD	M2019BB3A01
STANDARD	M2019E2A1W03
STANDARD	M2019E4S1W01
STANDARD	M2019EA1G15
CUSTOM	M2019EA1G15/209
STANDARD	M2019EA1W01
CUSTOM	M2019EA2W45/305
STANDARD	M2019ED1G01
CUSTOM	M2019ED1G01/209
STANDARD	M2019ES1G06

STANDARD	M2019ES1G45
STANDARD	M2019ES1W01
STANDARD	M2019ES1W03
STANDARD	M2019ES2G13
STANDARD	M2019ES2G13/U
STANDARD	M2019ES2W03
STANDARD	M2019ES2W13
CUSTOM	M2019-J9K
STANDARD	M2019LL1G01
STANDARD	M2019LL1G01-A
STANDARD	M2019LL1W01
STANDARD	M2019LL1W03
STANDARD	M2019LL2W13
STANDARD	M2019LL2W13/U
STANDARD	M2019QA1G01
CUSTOM	M2019QA1G01/214
STANDARD	M2019QS1W01
STANDARD	M2019RB1G03
STANDARD	M2019RB1W01
STANDARD	M2019S2A1G13
STANDARD	M2019S2A1W01
STANDARD	M2019S2A1W03
STANDARD	M2019S2A2G30
STANDARD	M2019S2A2G40
STANDARD	M2019S2S1A01
STANDARD	M2019S2S1W01
STANDARD	M2019S2S1W03
STANDARD	M2019S3D3W01
STANDARD	M2019SA1A30
STANDARD	M2019SA1W03
STANDARD	M2019SD3A01
STANDARD	M2019SD3W01
STANDARD	M2019SD3W01-BB
STANDARD	M2019SD3W03
STANDARD	M2019SS1G01
CUSTOM	M2019SS1G01/209
CUSTOM	M2019SS1G01/214
STANDARD	M2019SS1G03
STANDARD	M2019SS1W01
STANDARD	M2019SS1W01-BA
STANDARD	M2019SS1W01-BB
STANDARD	M2019SS1W01-BG
STANDARD	M2019SS1W01-CE
STANDARD	M2019SS1W03
STANDARD	M2019SS1W03-BC
STANDARD	M2019SS1W30
STANDARD	M2019SS2G13

STANDARD	M2019SS2W13
STANDARD	M2019SS2W30
STANDARD	M2019SS2W45
STANDARD	M2019TJG01
STANDARD	M2019TJG01-FA-1A
STANDARD	M2019TJG01-FA-2A-F
STANDARD	M2019TJG01-FC-2A-F
STANDARD	M2019TJW01
STANDARD	M2019TJW01-FA
STANDARD	M2019TJW01-FA-1A
STANDARD	M2019TJW01-FB-1A
STANDARD	M2019TJW01-FC-1A
STANDARD	M2019TJW01-FF-1A
STANDARD	M2019TJW01-FG-1G
STANDARD	M2019TJW01-FG-2A-F
STANDARD	M2019TJW01-GA-1A
STANDARD	M2019TJW01-GB-1A
STANDARD	M2019TJW01-SA-1A
STANDARD	M2019TJW03
STANDARD	M2019TJW03-FA-1A
STANDARD	M2019TJW03-FA-2A-F
STANDARD	M2019TJW03-GA-1A
STANDARD	M2019TNG03
STANDARD	M2019TNG03-EA
STANDARD	M2019TNW01
STANDARD	M2019TNW01-DA
STANDARD	M2019TNW01-DG
STANDARD	M2019TNW01-EA
STANDARD	M2019TXG13
STANDARD	M2019TXG13-DA
STANDARD	M2019TXG13-EH
STANDARD	M2019TXG13-GA
STANDARD	M2019TXG13-GB
STANDARD	M2019TXG13-GC
STANDARD	M2019TXG13-GF
STANDARD	M2019TXG45
STANDARD	M2019TXG45-DA
STANDARD	M2019TXG45-DC
STANDARD	M2019TXW13
STANDARD	M2019TXW13-DA
STANDARD	M2019TXW13-DB
STANDARD	M2019TXW13-EA
STANDARD	M2019TXW13-GA
STANDARD	M2019TYG01
STANDARD	M2019TYG01-JA
STANDARD	M2019TYW01
STANDARD	M2019TYW01-HH

STANDARD	M2019TYW01-JA
STANDARD	M2019TZG13
STANDARD	M2019TZG13-JA
STANDARD	M2019TZW13
STANDARD	M2019TZW13-JA
STANDARD	M2019X002
CUSTOM	M2019X006
CUSTOM	M2019X006-RO
STANDARD	M2024B2B1W01
CUSTOM	M2024B2B1W01-VA
STANDARD	M2024B2B3W01
STANDARD	M2024BB1AW01
STANDARD	M2024BB1G03
STANDARD	M2024BB1UW01
STANDARD	M2024BB1W01
CUSTOM	M2024BB1W01-14YH
STANDARD	M2024BB1W02
STANDARD	M2024BB1W03
STANDARD	M2024CS1G03
STANDARD	M2024CS1G03-C
STANDARD	M2024E2A2W23
STANDARD	M2024E2S2G13
STANDARD	M2024E2S2W40
STANDARD	M2024E4S1G01
STANDARD	M2024E4S1W01
STANDARD	M2024EA2W13
STANDARD	M2024ES1G01
STANDARD	M2024ES1W01
CUSTOM	M2024ES1W01/3
STANDARD	M2024L1L3W01
STANDARD	M2024LL1G01
STANDARD	M2024LL1W01
STANDARD	M2024LL1W01-H
STANDARD	M2024LL1W03
STANDARD	M2024LL1W06
STANDARD	M2024LL1W06-C
STANDARD	M2024LL3W01
STANDARD	M2024LL3W01-C
STANDARD	M2024LL3W01-G
STANDARD	M2024LL3W03
STANDARD	M2024LL4W01
STANDARD	M2024LL4W01-C
STANDARD	M2024Q4S4W01
STANDARD	M2024RB3A01
STANDARD	M2024S2A2G30
STANDARD	M2024S2A2G40
STANDARD	M2024S2A2W13

STANDARD	M2024S2S1W01
STANDARD	M2024S3A1W06
STANDARD	M2024S3A2A30
STANDARD	M2024S3A2G45
STANDARD	M2024S3S1G30
STANDARD	M2024S3S1W06
STANDARD	M2024S3S1W40
STANDARD	M2024S3S4W05
STANDARD	M2024SA2G40
STANDARD	M2024SD3A01
STANDARD	M2024SD3W01
STANDARD	M2024SD3W01-BA
STANDARD	M2024SS1A03
STANDARD	M2024SS1G01
CUSTOM	M2024SS1G01/CUL
STANDARD	M2024SS1G01-BA
STANDARD	M2024SS1G01-BB
STANDARD	M2024SS1G01-BG
STANDARD	M2024SS1G03
STANDARD	M2024SS1G06
STANDARD	M2024SS1W01
CUSTOM	M2024SS1W01/3
STANDARD	M2024SS1W01-BA
STANDARD	M2024SS1W01-BB
STANDARD	M2024SS1W01-CC
STANDARD	M2024SS1W03
STANDARD	M2024SS1W03-BA
STANDARD	M2024SS1W03-BC
STANDARD	M2024SS1W40
STANDARD	M2024SS2G13
STANDARD	M2024SS2G30
STANDARD	M2024SS2G45
STANDARD	M2024SS2W13
STANDARD	M2024SS4W01
STANDARD	M2024SS4W01-BB
STANDARD	M2024TJG01
STANDARD	M2024TJG03
STANDARD	M2024TJG03-FH
STANDARD	M2024TJG03-GH-1H
STANDARD	M2024TJG03-GH-3A-CF
STANDARD	M2024TJW01
STANDARD	M2024TJW01-FA-1A
STANDARD	M2024TJW01-FA-3A-CF
STANDARD	M2024TJW01-FA-4A-FC
STANDARD	M2024TJW01-FA-4A-FF
STANDARD	M2024TJW01-FC-1A
STANDARD	M2024TJW01-FH-1H

STANDARD	M2024TJW01-GA-1A
STANDARD	M2024TJW01-GB-1A
STANDARD	M2024TJW01-GB-2A-C
STANDARD	M2024TJW01-GC-3A-FF
STANDARD	M2024TJW01-GH-2A-F
STANDARD	M2024TJW02
STANDARD	M2024TJW02-FA
STANDARD	M2024TJW02-FA-1A
STANDARD	M2024TJW03
STANDARD	M2024TJW03-FA-1A
STANDARD	M2024TJW03-GA-1A
STANDARD	M2024TJW03-GB-2A-C
STANDARD	M2024TNW01
STANDARD	M2024TNW01-DA
STANDARD	M2024TNW01-DB
STANDARD	M2024TNW01-DH
STANDARD	M2024TNW01-GA
STANDARD	M2024TNW03
STANDARD	M2024TNW03-DA
STANDARD	M2024TNW03-DH
STANDARD	M2024TXG45
STANDARD	M2024TXG45-DH
STANDARD	M2024TXW13
STANDARD	M2024TXW13-DC
STANDARD	M2024TYW01
STANDARD	M2024TYW01-HB
STANDARD	M2024TYW01-JA
STANDARD	M2024TYW01-JB
CUSTOM	M2024X001
CUSTOM	M2024X002
CUSTOM	M2024X004
STANDARD	M2027B2B1W01
STANDARD	M2027B2B1W03
STANDARD	M2027BB1W01
STANDARD	M2027BB1W01-RA
STANDARD	M2027E2A1W01
STANDARD	M2027ES1W01
STANDARD	M2027ES1W03
STANDARD	M2027ES2G13
STANDARD	M2027L1L1A01
STANDARD	M2027LL1G01
STANDARD	M2027LL1G01-A
STANDARD	M2027LL1W01
STANDARD	M2027LL2A30
STANDARD	M2027LL2A40
STANDARD	M2027LL2G30
CUSTOM	M2027LL4A01/328

STANDARD	M2027LL4W01
STANDARD	M2027S2A2G30
STANDARD	M2027S2A2W30
STANDARD	M2027SS1G01
STANDARD	M2027SS1W01
STANDARD	M2027SS1W01-BC
STANDARD	M2027SS1W03
STANDARD	M2027SS1W03-BC
STANDARD	M2027TJW01
STANDARD	M2027TJW01-FA
STANDARD	M2027TJW01-FA-1A
STANDARD	M2027TJW01-FB-1A
STANDARD	M2027TJW01-FB-1B
STANDARD	M2027TJW01-FC-1A
STANDARD	M2027TJW01-FE-1A
STANDARD	M2027TJW01-FF-1A
STANDARD	M2027TJW01-GA-1A
STANDARD	M2027TJW02
STANDARD	M2027TJW02-FA
STANDARD	M2027TJW02-FA-1A
STANDARD	M2027TJW02-FB-1B
STANDARD	M2027TJW02-GA
STANDARD	M2027TJW03
STANDARD	M2027TJW03-FA-1A
STANDARD	M2027TNG01
STANDARD	M2027TNG01-DA
STANDARD	M2027TNW01
STANDARD	M2027TNW01-DA
STANDARD	M2027TNW01-EA
STANDARD	M2027TNW01-EC
STANDARD	M2027TNW01-GA
STANDARD	M2027TNW01-GB
STANDARD	M2027TXG30
STANDARD	M2027TXG30-DA
STANDARD	M2027TXG30-DC
STANDARD	M2027TXG30-DE
STANDARD	M2027TXG30-EC
STANDARD	M2027TXW13
STANDARD	M2027TXW13-DA
STANDARD	M2027TXW13-GA
STANDARD	M2027TXW13-GC
STANDARD	M2029B2B1W01
STANDARD	M2029B2B1W03
STANDARD	M2029B2B3W01
STANDARD	M2029BB1W01
STANDARD	M2029BB1W03
STANDARD	M2029BB1W40

CUSTOM	M2029BB1W40/305
STANDARD	M2029BB3W01
STANDARD	M2029E3S1W01
CUSTOM	M2029EA2G40/305
CUSTOM	M2029EA2W45/305
STANDARD	M2029ES1G06
STANDARD	M2029ES1G30
STANDARD	M2029ES1W01
STANDARD	M2029ES1W03
STANDARD	M2029ES2G30
STANDARD	M2029SD3W01
STANDARD	M2029SS1G06
STANDARD	M2029SS1W01
STANDARD	M2029SS1W01-BC
STANDARD	M2029SS1W02
STANDARD	M2029SS1W03
STANDARD	M2029SS2G30
STANDARD	M2029SS4G03
STANDARD	M2029TJG03
STANDARD	M2029TJW01
STANDARD	M2029TJW01-FA-1A
STANDARD	M2029TJW01-FA-2A-C
STANDARD	M2029TJW01-FC-1A
STANDARD	M2029TJW01-FC-3A-CE
STANDARD	M2029TJW01-GA-1A
STANDARD	M2029TJW01-GC-1A
STANDARD	M2029TJW01-GG-1A
STANDARD	M2029TNA03
STANDARD	M2029TNA03-DC
STANDARD	M2029TNW01
STANDARD	M2029TNW01-DA
STANDARD	M2029TNW01-DC
STANDARD	M2029TNW01-EA
STANDARD	M2029TNW01-FA
STANDARD	M2029TNW01-FB
STANDARD	M2029TNW01-GH
STANDARD	M2029TXG15
STANDARD	M2029TXG15-DA
STANDARD	M2029TXG41
STANDARD	M2029TXG41-DA
STANDARD	M2029TXW13
STANDARD	M2029TXW13-DA
STANDARD	M2029TXW13-DB
STANDARD	M2029TXW13-DC
STANDARD	M2029TXW13-EA
STANDARD	M2029TXW13-GA
STANDARD	M2029TXW13-GB

STANDARD	M2029TXW30
STANDARD	M2029TXW30-DC
STANDARD	M2029TZW13
STANDARD	M2029TZW13-JA
STANDARD	M2039B2B1W01
CUSTOM	M2039B2B1W01/5
STANDARD	M2039ES1W01
STANDARD	M2039SS1G01
STANDARD	M2039SS1W01
STANDARD	M2039TXA41
STANDARD	M2039TXA41-DA
STANDARD	M2039TXW13
STANDARD	M2039TXW13-EA
STANDARD	M2044B2B1A01
STANDARD	M2044B2B1W01
STANDARD	M2044B2B3W03
STANDARD	M2044B2B3W06
STANDARD	M2044BB1G01
CUSTOM	M2044BB1G01/3
STANDARD	M2044BB1W01
STANDARD	M2044ES1A03
STANDARD	M2044ES1W01
STANDARD	M2044ES1W03
STANDARD	M2044LL1A01
STANDARD	M2044LL1W01
STANDARD	M2044LL1W01-C
STANDARD	M2044LL2A03
STANDARD	M2044S2A1W01
STANDARD	M2044S2S1W01
STANDARD	M2044SA1W01
STANDARD	M2044SA1W03
STANDARD	M2044SD3W01
STANDARD	M2044SD3W01-BA
STANDARD	M2044SS1G01
STANDARD	M2044SS1W01
STANDARD	M2044SS1W01-BA
STANDARD	M2044SS1W01-BC
STANDARD	M2044SS1W01-BE
STANDARD	M2044SS1W01-BG
STANDARD	M2044SS1W03
STANDARD	M2044SS1W03-BE
STANDARD	M2044SS1W40
STANDARD	M2044TNW01
STANDARD	M2044TNW01-DA
STANDARD	M2044TNW01-DB
STANDARD	M2044TNW01-DH
STANDARD	M2044TNW01-EA

STANDARD	M2044TNW01-FA
STANDARD	M2044TNW03
STANDARD	M2044TNW03-DA
STANDARD	M2044TYW01
STANDARD	M2044TYW01-JA
STANDARD	M2044TYW01-JF
STANDARD	M2047B2B1W01
CUSTOM	M2047B2B3A01/5
STANDARD	M2047BB1W01
STANDARD	M2047ES1W01
STANDARD	M2047SD3W03/CUL
STANDARD	M2047SD3W03/U
STANDARD	M2047SS1W01
STANDARD	M2047TXW13
STANDARD	M2047TXW13-EA
STANDARD	M2047TYW01
STANDARD	M2047TYW01-JA
CUSTOM	M2047X001
STANDARD	M2049B2B1W01
STANDARD	M2049LL1W01
STANDARD	M2049SS1W01
STANDARD	M2049SS2W40/CUL

S Toggle

STANDARD	S6A/U
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CWSC Rocker

STANDARD	CWSC11JCACS
STANDARD	CWSC11JDADS
STANDARD	CWSC11JFAFS
STANDARD	CWSC21JCACS
STANDARD	CWSC21JDADS
STANDARD	CWSC21JFAFS
CWSC Rocker	CWSCX001