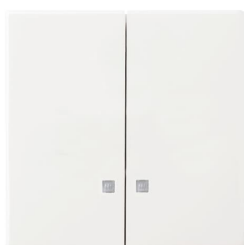


PRODUCT-DETAILS

1785 K-84

1785 K-84 Rocker Switch/push button Two-part rocker studio white - 63x63



General Information

Extended Product Type	1785 K-84
Product ID	2CKA001751A3127
EAN	4011395223895
Catalog Description	1785 K-84 Rocker Switch/push button Two-part rocker studio white - 63x63
Long Description	As a cover for flush-mounted control 2gang switch.

Installation

Instructions and Manuals	No document needed
--------------------------	--------------------

Technical

Data Sheet, Technical Information	No document needed
Application	Switch/push button
Design Range	63x63 future linear future Busch-axcent Busch-axcent pur solo carat

Mounting Type	Flush Mounted
Type of Fastening	Clamp
Surface Finishing	Untreated Glossy
Material	Thermoplastic
Model Number	Two-part rocker
RAL Number	RAL 9016 - Traffic White
Color	studio white

Environmental

Degree of Protection	IP20
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Information	2CKA200000E2016
REACH Declaration	2CKA309999E9999

Dimensions

Product Net Width	63 mm
Product Net Height	63 mm
Product Net Depth / Length	20 mm
Product Net Weight	23 g

Ordering

Minimum Order Quantity	1 piece
Package Level 1 Units	carton 10 piece
Package Level 1 Gross Weight	0.294 kg
Customs Tariff Number	85389099
Country of Origin	Germany (DE)

Certificates and Declarations

Declaration of Conformity - CE	2CKA200000E2016
--------------------------------	-----------------

Classifications

ETIM 8	EC000011 - Control element/cover plate for domestic switching devices
ETIM 9	EC000011 - Control element/cover plate for domestic switching devices
WEEE Category	Product Not in WEEE Scope
CN8	8538 90 99
eClass	V11.0 : 27144002

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CKA001012A1150	2000/5 US-500 Flush Mounted Inserts Rocker/button 2 rocker Series switch	2000/5 US-500	1	piece
2CKA001012A2108	2000/5 US-507 Flush Mounted Inserts Rocker/button 2 rocker Series switch	2000/5 US-507	1	piece

2CKA001012A1135	2000/5 USGL Switch insert Rocker/button 2 rocker Series switch with Neon lamp	2000/5 USGL	1	piece
2CKA001011A0928	2000/6/6US-101-500 Flush Mounted Inserts Rocker/button 2 rocker Alternating -/alternating switch	2000/6/6US-101-500	1	piece
2CKA001012A2238	2400/5 USK-500 Flush Mounted Inserts Rocker/button 2 rocker Series switch with LED not exchangeable	2400/5 USK-500	1	piece
2CKA001022A0663	2400/6/6US-101-500 Flush Mounted Inserts Rocker/button 2 rocker Alternating -/alternating switch	2400/6/6US-101-500	1	piece
2CKA001754A4240	1721-181K Cover Frame 1gang(s) anthracite - future linear	1721-181K	1	piece
2CKA001754A4168	1721-182 Cover Frame 1gang(s) ivory white - future	1721-182	1	piece
2CKA001754A4506	1721-182K-500 Cover Frame 1gang(s) ivory white - future linear	1721-182K-500	1	piece
2CKA001754A4529	1721-183K-500 Cover Frame 1gang(s) aluminium silver - future linear	1721-183K-500	1	piece
2CKA001754A4173	1721-184 Cover Frame 1gang(s) studio white - future	1721-184	1	piece
2CKA001754A4527	1721-184 NSK-500 Cover Frame 1gang(s) studio white - future linear	1721-184 NSK-500	1	piece
2CKA001754A4504	1721-184-500 Cover Frame 1gang(s) studio white - future	1721-184-500	1	piece
2CKA001754A4498	1721-184K-500 Cover Frame 1gang(s) studio white - future linear	1721-184K-500	1	piece
2CKA001754A4775	1721-223 Cover Frame 1gang(s) glass purple - Busch-axcent	1721-223	1	piece
2CKA001754A4760	1721-225 Cover Frame 1gang(s) glass sun - Busch-axcent	1721-225	1	piece
2CKA001754A4770	1721-226 Cover Frame 1gang(s) glass avocado - Busch-axcent	1721-226	1	piece
2CKA001754A4765	1721-227 Cover Frame 1gang(s) glass coral - Busch-axcent	1721-227	1	piece
2CKA001754A4755	1721-228 Cover Frame 1gang(s) glass ocean - Busch-axcent	1721-228	1	piece
2CKA001754A4780	1721-229 Cover Frame 1gang(s) glass oyster - Busch-axcent	1721-229	1	piece
2CKA001754A4790	1721-243 Cover Frame 1gang(s) paper brown - Busch-axcent	1721-243	1	piece
2CKA001754A4800	1721-245 Cover Frame 1gang(s) glass black - Busch-axcent	1721-245	1	piece
2CKA001754A4785	1721-248 Cover Frame 1gang(s) paper blue - Busch-axcent	1721-248	1	piece
2CKA001754A4688	1721-270-500 Cover Frame 1gang(s) platinum - Busch-axcent	1721-270-500	1	piece
2CKA001754A4708	1721-275-500 Cover Frame 1gang(s) black matt - Busch-axcent	1721-275-500	1	piece
2CKA001754A4698	1721-276-500 Cover Frame 1gang(s) titanium - Busch-axcent	1721-276-500	1	piece
2CKA001754A4437	1721-280 Cover Frame 1gang(s) white glass - Busch-axcent pur	1721-280	1	piece
2CKA001754A4409	1721-281 Cover Frame 1gang(s) black - Busch-axcent	1721-281	1	piece
2CKA001753A4126	1721-281/11 Cover Frame 1gang(s) black - Busch-axcent flat	1721-281/11	1	piece
2CKA001754A4543	1721-283 Cover Frame 1gang(s) brown glass - Busch-axcent	1721-283	1	piece
2CKA001754A4331	1721-284 Cover Frame 1gang(s) studio white - Busch-axcent	1721-284	1	piece
2CKA001753A4121	1721-284/11 Cover Frame 1gang(s) studio white - Busch-axcent flat	1721-284/11	1	piece

2CKA001754A4334	1721-285 Cover Frame 1gang(s) yellow - Busch-axcent	1721-285	1	piece
2CKA001754A4337	1721-286 Cover Frame 1gang(s) green - Busch-axcent	1721-286	1	piece
2CKA001754A4340	1721-287 Cover Frame 1gang(s) red - Busch-axcent	1721-287	1	piece
2CKA001754A4343	1721-288 Cover Frame 1gang(s) blue - Busch-axcent	1721-288	1	piece
2CKA001754A4805	1721-290 Cover Frame 1gang(s) slate grey - Busch-axcent	1721-290	1	piece
2CKA001754A4471	1721-291-500 Cover Frame 1gang(s) entrée-grey - Busch-axcent	1721-291-500	1	piece
2CKA001754A4491	1721-295-500 Cover Frame 1gang(s) château-black - Busch-axcent	1721-295-500	1	piece
2CKA001754A4795	1721-298 Cover Frame 1gang(s) concrete grey - Busch-axcent	1721-298	1	piece
2CKA001754A4481	1721-299-500 Cover Frame 1gang(s) maison-beige - Busch-axcent	1721-299-500	1	piece
2CKA001754A4535	1721-80-500 Cover Frame 1gang(s) chrome - solo	1721-80-500	1	piece
2CKA001754A4538	1721-80G-500 Cover Frame 1gang(s) chrome gloss - solo	1721-80G-500	1	piece
2CKA001754A4442	1721-811 Cover Frame 1gang(s) white glass - carat	1721-811	1	piece
2CKA001754A4820	1721-815 Cover Frame 1gang(s) porcelain anthracite - carat	1721-815	1	piece
2CKA001754A4258	1721-821 Cover Frame 1gang(s) bronze - carat	1721-821	1	piece
2CKA001754A4356	1721-823-101 Cover Frame 1gang(s) gold - carat	1721-823-101	1	piece
2CKA001754A4322	1721-825 Cover Frame 1gang(s) glass black - carat	1721-825	1	piece
2CKA001754A4360	1721-826-101 Cover Frame 1gang(s) chrome - carat	1721-826-101	1	piece
2CKA001754A4605	1721-831-500 Cover Frame 1gang(s) anthracite - Busch-Dynasty	1721-831-500	1	piece
2CKA001754A4600	1721-832-500 Cover Frame 1gang(s) ivory white - Busch-Dynasty	1721-832-500	1	piece
2CKA001754A4575	1721-833-500 Cover Frame 1gang(s) polished brass decor anthracite - Busch-Dynasty	1721-833-500	1	piece
2CKA001754A4565	1721-835-500 Cover Frame 1gang(s) polished brass anthracite - Busch-Dynasty	1721-835-500	1	piece
2CKA001754A4570	1721-836-500 Cover Frame 1gang(s) polished brass decor ivory white - Busch-Dynasty	1721-836-500	1	piece
2CKA001754A4560	1721-838-500 Cover Frame 1gang(s) polished brass ivory white - Busch-Dynasty	1721-838-500	1	piece
2CKA001754A4595	1721-843-500 Cover Frame 1gang(s) antique brass decor anthracite - Busch-Dynasty	1721-843-500	1	piece
2CKA001754A4536	1721-84-500 Cover Frame 1gang(s) studio white - solo	1721-84-500	1	piece
2CKA001754A4585	1721-845-500 Cover Frame 1gang(s) antique brass anthracite - Busch-Dynasty	1721-845-500	1	piece
2CKA001754A4590	1721-846-500 Cover Frame 1gang(s) antique brass decor ivory white - Busch-Dynasty	1721-846-500	1	piece
2CKA001754A4580	1721-848-500 Cover Frame 1gang(s) antique brass ivory white - Busch-Dynasty	1721-848-500	1	piece
2CKA001754A4254	1721-860 Cover Frame 1gang(s) stainless steel - carat	1721-860	1	piece
2CKA001754A4500	1721-866K-500 Cover Frame 1gang(s) stainless steel - Pure Stainless Steel	1721-866K-500	1	piece
2CKA001754A4531	1721-884K-500 Cover Frame 1gang(s) studio white matt - future linear	1721-884K-500	1	piece
2CKA001754A4532	1721-885K-500 Cover Frame 1gang(s) black matt - future linear	1721-885K-500	1	piece

2CKA001754A4714	1722-12-182K-101 Cover Frame 2gang(s) red - future linear	1722-12-182K-101	1	piece
2CKA001754A4241	1722-181K Cover Frame 2gang(s) anthracite - future linear	1722-181K	1	piece
2CKA001754A4169	1722-182 Cover Frame 2gang(s) ivory white - future	1722-182	1	piece
2CKA001754A4231	1722-182K Cover Frame 2gang(s) ivory white - future linear	1722-182K	1	piece
2CKA001754A4530	1722-183K-500 Cover Frame 2gang(s) aluminium silver - future linear	1722-183K-500	1	piece
2CKA001754A4174	1722-184 Cover Frame 2gang(s) studio white - future	1722-184	1	piece
2CKA001754A4508	1722-184-500 Cover Frame 2gang(s) studio white - future	1722-184-500	1	piece
2CKA001754A4499	1722-184K-500 Cover Frame 2gang(s) studio white - future linear	1722-184K-500	1	piece
2CKA001754A4776	1722-223 Cover Frame 2gang(s) glass purple - Busch-axcent	1722-223	1	piece
2CKA001754A4761	1722-225 Cover Frame 2gang(s) glass sun - Busch-axcent	1722-225	1	piece
2CKA001754A4771	1722-226 Cover Frame 2gang(s) glass avocado - Busch-axcent	1722-226	1	piece
2CKA001754A4766	1722-227 Cover Frame 2gang(s) glass coral - Busch-axcent	1722-227	1	piece
2CKA001754A4756	1722-228 Cover Frame 2gang(s) glass ocean - Busch-axcent	1722-228	1	piece
2CKA001754A4781	1722-229 Cover Frame 2gang(s) glass oyster - Busch-axcent	1722-229	1	piece
2CKA001754A4791	1722-243 Cover Frame 2gang(s) paper brown - Busch-axcent	1722-243	1	piece
2CKA001754A4801	1722-245 Cover Frame 2gang(s) glass black - Busch-axcent	1722-245	1	piece
2CKA001754A4786	1722-248 Cover Frame 2gang(s) paper blue - Busch-axcent	1722-248	1	piece
2CKA001754A4689	1722-270-500 Cover Frame 2gang(s) platinum - Busch-axcent	1722-270-500	1	piece
2CKA001754A4709	1722-275-500 Cover Frame 2gang(s) black matt - Busch-axcent	1722-275-500	1	piece
2CKA001754A4699	1722-276-500 Cover Frame 2gang(s) titanium - Busch-axcent	1722-276-500	1	piece
2CKA001754A4438	1722-280 Cover Frame 2gang(s) white glass - Busch-axcent pur	1722-280	1	piece
2CKA001754A4410	1722-281 Cover Frame 2gang(s) black - Busch-axcent	1722-281	1	piece
2CKA001753A4127	1722-281/11 Cover Frame 2gang(s) black - Busch-axcent flat	1722-281/11	1	piece
2CKA001754A4544	1722-283 Cover Frame 2gang(s) brown glass - Busch-axcent	1722-283	1	piece
2CKA001754A4332	1722-284 Cover Frame 2gang(s) studio white - Busch-axcent	1722-284	1	piece
2CKA001753A4122	1722-284/11 Cover Frame 2gang(s) studio white - Busch-axcent flat	1722-284/11	1	piece
2CKA001754A4335	1722-285 Cover Frame 2gang(s) yellow - Busch-axcent	1722-285	1	piece
2CKA001754A4338	1722-286 Cover Frame 2gang(s) green - Busch-axcent	1722-286	1	piece
2CKA001754A4341	1722-287 Cover Frame 2gang(s) red - Busch-axcent	1722-287	1	piece
2CKA001754A4344	1722-288 Cover Frame 2gang(s) blue - Busch-axcent	1722-288	1	piece
2CKA001754A4806	1722-290 Cover Frame 2gang(s) slate grey - Busch-axcent	1722-290	1	piece

2CKA001754A4472	1722-291-500 Cover Frame 2gang(s) entrée-grey - Busch-axcent	1722-291-500	1	piece
2CKA001754A4492	1722-295-500 Cover Frame 2gang(s) château-black - Busch-axcent	1722-295-500	1	piece
2CKA001754A4796	1722-298 Cover Frame 2gang(s) concrete grey - Busch-axcent	1722-298	1	piece
2CKA001754A4482	1722-299-500 Cover Frame 2gang(s) maison-beige - Busch-axcent	1722-299-500	1	piece
2CKA001754A4537	1722-80-500 Cover Frame 2gang(s) chrome - solo	1722-80-500	1	piece
2CKA001754A4327	1722-80G Cover Frame 2gang(s) chrome gloss - solo	1722-80G	1	piece
2CKA001754A4443	1722-811 Cover Frame 2gang(s) white glass - carat	1722-811	1	piece
2CKA001754A4821	1722-815 Cover Frame 2gang(s) porcelain anthracite - carat	1722-815	1	piece
2CKA001754A4259	1722-821 Cover Frame 2gang(s) bronze - carat	1722-821	1	piece
2CKA001754A4357	1722-823-101 Cover Frame 2gang(s) gold - carat	1722-823-101	1	piece
2CKA001754A4323	1722-825 Cover Frame 2gang(s) glass black - carat	1722-825	1	piece
2CKA001754A4361	1722-826-101 Cover Frame 2gang(s) chrome - carat	1722-826-101	1	piece
2CKA001754A4606	1722-831-500 Cover Frame 2gang(s) anthracite - Busch-Dynasty	1722-831-500	1	piece
2CKA001754A4601	1722-832-500 Cover Frame 2gang(s) ivory white - Busch-Dynasty	1722-832-500	1	piece
2CKA001754A4576	1722-833-500 Cover Frame 2gang(s) polished brass decor anthracite - Busch-Dynasty	1722-833-500	1	piece
2CKA001754A4566	1722-835-500 Cover Frame 2gang(s) polished brass anthracite - Busch-Dynasty	1722-835-500	1	piece
2CKA001754A4571	1722-836-500 Cover Frame 2gang(s) polished brass decor ivory white - Busch-Dynasty	1722-836-500	1	piece
2CKA001754A4561	1722-838-500 Cover Frame 2gang(s) polished brass ivory white - Busch-Dynasty	1722-838-500	1	piece
2CKA001754A4596	1722-843-500 Cover Frame 2gang(s) antique brass decor anthracite - Busch-Dynasty	1722-843-500	1	piece
2CKA001754A4539	1722-84-500 Cover Frame 2gang(s) studio white - solo	1722-84-500	1	piece
2CKA001754A4586	1722-845-500 Cover Frame 2gang(s) antique brass anthracite - Busch-Dynasty	1722-845-500	1	piece
2CKA001754A4591	1722-846-500 Cover Frame 2gang(s) antique brass decor ivory white - Busch-Dynasty	1722-846-500	1	piece
2CKA001754A4581	1722-848-500 Cover Frame 2gang(s) antique brass ivory white - Busch-Dynasty	1722-848-500	1	piece
2CKA001754A4255	1722-860 Cover Frame 2gang(s) stainless steel - carat	1722-860	1	piece
2CKA001754A4501	1722-866K-500 Cover Frame 2gang(s) stainless steel - Pure Stainless Steel	1722-866K-500	1	piece
2CKA001754A4415	1722-884K Cover Frame 2gang(s) studio white matt - future linear	1722-884K	1	piece
2CKA001754A4534	1722-885K-500 Cover Frame 2gang(s) black matt - future linear	1722-885K-500	1	piece
2CKA001754A4242	1723-181K Cover Frame 3gang(s) anthracite - future linear	1723-181K	1	piece
2CKA001754A4170	1723-182 Cover Frame 3gang(s) ivory white - future	1723-182	1	piece
2CKA001754A4232	1723-182K Cover Frame 3gang(s) ivory white - future linear	1723-182K	1	piece
2CKA001754A4533	1723-183K-500 Cover Frame 3gang(s) aluminium silver - future linear	1723-183K-500	1	piece
2CKA001754A4175	1723-184 Cover Frame 3gang(s) studio white - future	1723-184	1	piece

2CKA001754A4366	1723-184 NSK Cover Frame 3gang(s) studio white - future linear	1723-184 NSK	1	piece
2CKA001754A4502	1723-184K-500 Cover Frame 3gang(s) studio white - future linear	1723-184K-500	1	piece
2CKA001754A4777	1723-223 Cover Frame 3gang(s) glass purple - Busch-axcent	1723-223	1	piece
2CKA001754A4762	1723-225 Cover Frame 3gang(s) glass sun - Busch-axcent	1723-225	1	piece
2CKA001754A4772	1723-226 Cover Frame 3gang(s) glass avocado - Busch-axcent	1723-226	1	piece
2CKA001754A4767	1723-227 Cover Frame 3gang(s) glass coral - Busch-axcent	1723-227	1	piece
2CKA001754A4757	1723-228 Cover Frame 3gang(s) glass ocean - Busch-axcent	1723-228	1	piece
2CKA001754A4792	1723-243 Cover Frame 3gang(s) paper brown - Busch-axcent	1723-243	1	piece
2CKA001754A4802	1723-245 Cover Frame 3gang(s) glass black - Busch-axcent	1723-245	1	piece
2CKA001754A4787	1723-248 Cover Frame 3gang(s) paper blue - Busch-axcent	1723-248	1	piece
2CKA001754A4690	1723-270-500 Cover Frame 3gang(s) platinum - Busch-axcent	1723-270-500	1	piece
2CKA001754A4710	1723-275-500 Cover Frame 3gang(s) black matt - Busch-axcent	1723-275-500	1	piece
2CKA001754A4700	1723-276-500 Cover Frame 3gang(s) titanium - Busch-axcent	1723-276-500	1	piece
2CKA001754A4439	1723-280 Cover Frame 3gang(s) white glass - Busch-axcent pur	1723-280	1	piece
2CKA001754A4411	1723-281 Cover Frame 3gang(s) black - Busch-axcent	1723-281	1	piece
2CKA001753A4128	1723-281/11 Cover Frame 3gang(s) black - Busch-axcent flat	1723-281/11	1	piece
2CKA001754A4545	1723-283 Cover Frame 3gang(s) brown glass - Busch-axcent	1723-283	1	piece
2CKA001754A4333	1723-284 Cover Frame 3gang(s) studio white - Busch-axcent	1723-284	1	piece
2CKA001753A4123	1723-284/11 Cover Frame 3gang(s) studio white - Busch-axcent flat	1723-284/11	1	piece
2CKA001754A4336	1723-285 Cover Frame 3gang(s) yellow - Busch-axcent	1723-285	1	piece
2CKA001754A4339	1723-286 Cover Frame 3gang(s) green - Busch-axcent	1723-286	1	piece
2CKA001754A4342	1723-287 Cover Frame 3gang(s) red - Busch-axcent	1723-287	1	piece
2CKA001754A4345	1723-288 Cover Frame 3gang(s) blue - Busch-axcent	1723-288	1	piece
2CKA001754A4807	1723-290 Cover Frame 3gang(s) slate grey - Busch-axcent	1723-290	1	piece
2CKA001754A4473	1723-291-500 Cover Frame 3gang(s) entrée-grey - Busch-axcent	1723-291-500	1	piece
2CKA001754A4493	1723-295-500 Cover Frame 3gang(s) châteaublack - Busch-axcent	1723-295-500	1	piece
2CKA001754A4797	1723-298 Cover Frame 3gang(s) concrete grey - Busch-axcent	1723-298	1	piece
2CKA001754A4483	1723-299-500 Cover Frame 3gang(s) maison-beige - Busch-axcent	1723-299-500	1	piece
2CKA001754A4540	1723-80-500 Cover Frame 3gang(s) chrome - solo	1723-80-500	1	piece
2CKA001754A4328	1723-80G Cover Frame 3gang(s) chrome gloss - solo	1723-80G	1	piece
2CKA001754A4444	1723-811 Cover Frame 3gang(s) white glass - carat	1723-811	1	piece
2CKA001754A4260	1723-821 Cover Frame 3gang(s) bronze - carat	1723-821	1	piece

2CKA001754A4358	1723-823-101 Cover Frame 3gang(s) gold - carat	1723-823-101	1	piece
2CKA001754A4324	1723-825 Cover Frame 3gang(s) glass black - carat	1723-825	1	piece
2CKA001754A4362	1723-826-101 Cover Frame 3gang(s) chrome - carat	1723-826-101	1	piece
2CKA001754A4607	1723-831-500 Cover Frame 3gang(s) anthracite - Busch-Dynasty	1723-831-500	1	piece
2CKA001754A4602	1723-832-500 Cover Frame 3gang(s) ivory white - Busch-Dynasty	1723-832-500	1	piece
2CKA001754A4577	1723-833-500 Cover Frame 3gang(s) polished brass decor anthracite - Busch-Dynasty	1723-833-500	1	piece
2CKA001754A4567	1723-835-500 Cover Frame 3gang(s) polished brass anthracite - Busch-Dynasty	1723-835-500	1	piece
2CKA001754A4572	1723-836-500 Cover Frame 3gang(s) polished brass decor ivory white - Busch-Dynasty	1723-836-500	1	piece
2CKA001754A4562	1723-838-500 Cover Frame 3gang(s) polished brass ivory white - Busch-Dynasty	1723-838-500	1	piece
2CKA001754A4597	1723-843-500 Cover Frame 3gang(s) antique brass decor anthracite - Busch-Dynasty	1723-843-500	1	piece
2CKA001754A4541	1723-84-500 Cover Frame 3gang(s) studio white - solo	1723-84-500	1	piece
2CKA001754A4587	1723-845-500 Cover Frame 3gang(s) antique brass anthracite - Busch-Dynasty	1723-845-500	1	piece
2CKA001754A4592	1723-846-500 Cover Frame 3gang(s) antique brass decor ivory white - Busch-Dynasty	1723-846-500	1	piece
2CKA001754A4582	1723-848-500 Cover Frame 3gang(s) antique brass ivory white - Busch-Dynasty	1723-848-500	1	piece
2CKA001754A4256	1723-860 Cover Frame 3gang(s) stainless steel - carat	1723-860	1	piece
2CKA001754A4319	1723-866K Cover Frame 3gang(s) stainless steel - Pure Stainless Steel	1723-866K	1	piece
2CKA001754A4416	1723-884K Cover Frame 3gang(s) studio white matt - future linear	1723-884K	1	piece
2CKA001754A4421	1723-885K Cover Frame 3gang(s) black matt - future linear	1723-885K	1	piece

Categories

Low Voltage Products and Systems → Wiring Accessories - Light Switch Ranges → Cover Plates (partly incl. Insert) → Mechanical Controls

