

Accessories

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ITS2 monitoring unit

Greater intelligence comes from within



Real-time measuring and monitoring have never been easier, thanks to the ITS2. Its built-in intelligence means that whether it's supporting a data center, hospital or commercial building, operatives can access its monitoring data and

provide an instant response in the event of any system faults.

The result of this fully digital solution? Smarter, data-driven decisions made in real time.



Integrated and future-ready

- Cloud-based connectivity with ABB Ability™ EDCS
- Easy configuration with Ekip Connect
- Configure ITS2 monitoring in just 1 min



Convenience and ease

- Space-saving factory-mounted design
- No need for additional power supply
- 80 percent faster installation



Safe and reliable

- Ensures continuous operations
- Fuse monitoring functionality (EFM)
- System safety and protection protocols



Ease of installation

A busy facility needs any new monitoring equipment to get up and running quickly to avoid operational interruptions.

Installing the ITS2 monitoring is a pain-free, intuitive process, with Ekip Connect used to configure your entire system.

The ITS2 communicates with the main gateway using Modbus RTU. The gateway enables direct communication to the ABB Ability™, Electrical Distribution Control System (EDCS) using the Ekip Com Hub cartridge module.

The gateway uploads your system data to the cloud-connected ABB Ability™ platform, enabling full control in less than 10 minutes.

Seamless integration

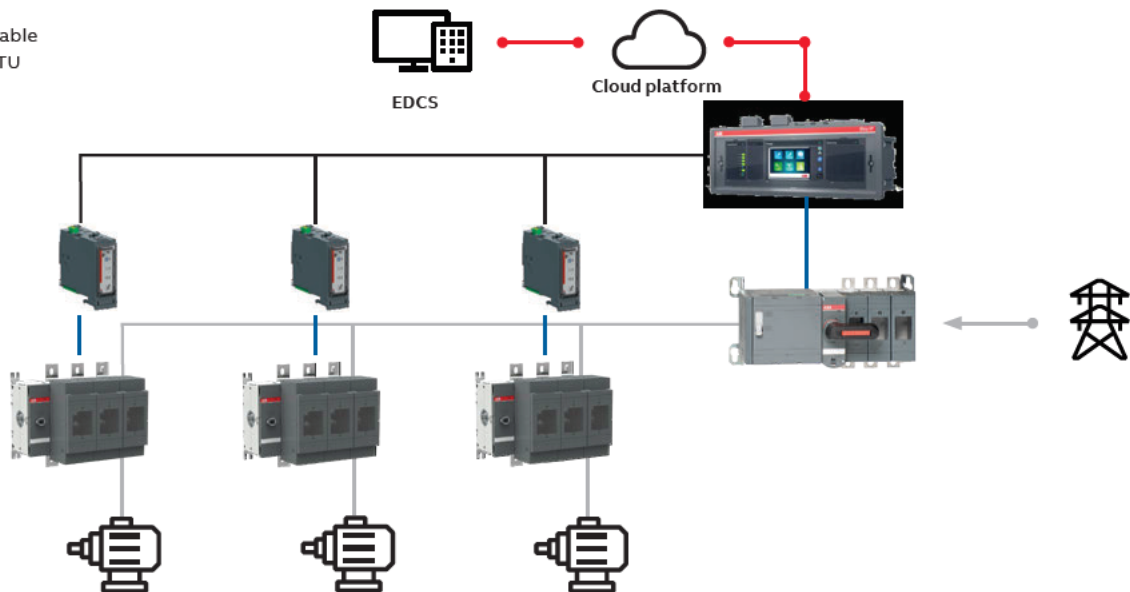
A complete digital solution needs to be compatible with your existing infrastructure and processes. The ITS2 monitoring unit integrates flawlessly both with ABB's switches and fusegear products

- Uses ABB Ability™ EDCS to collect information from enabled ABB devices installed in low-voltage distribution systems
- Monitor the electrical system from anywhere, anytime
- ABB Ability™ EDCS compatible gateways: Emax 2, Ekip UP, TMax and TruONE Automatic Transfer Switches (equipped with Ekip Com Hub) or with Ekip E-Hub via Modbus RS-485.

Connection to ABB Ability™ for all switches and fusegear with ITS2

Standalone ITS2 Modbus RTU

- Ethernet cable
- Modbus RTU
- Sensor
- Power



Click for ABB Ability™ EDCS



Click for Ekip Connect 3



Accessories for switch fuses 160...1250 A

Ordering information for ITS2 monitoring unit



ITS2.1 Monitoring unit



OFMZx2



OA1G10

ITS2 monitoring unit

Suitable for switches	Type	Order number	Units/ type [pcs]	Weight/unit [kg]
OS/OSM 160...1250	ITS2.1 Standalone Module	1SEP622724R0001	1	0.5

Accessories that need to be ordered separately

Description	Suitable for switches	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Voltage sensing faston terminals package	OS160...630	OFMZx2	1SCA022475R9910	6	0.01
Auxiliary contacts NO	OT160EV...2500E, OS160...1250	OA1G10	1SCA022353R4970	1	0.03

Current transformer requirements

Please note! It is necessary to use current transformers (CT) with the ITS2. Transformers are not included with the unit and must be purchased separately.

Switch size	Primary current	Secondary current	Class	Burden	Quantity
160 A	160 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
250 A	250 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
400 A	400 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
630 A	600 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
800 A	800 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
1 000 A	1 000 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
1 250 A	1 250 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
1 600 A	1 600 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3
2 500 A	2 500 A	1A	0.5s / 0.2 / 0.2s / 0.1	≥2.5VA	3

ITS2.1: which data can be monitored

Features

Line Voltage	(V AC)	V12, V23, V31
Phase Voltage	(V AC)	V1N, V2N, V3N
Current	(A)	L1, L2, L3
Active power	(kW)	L1, L2, L3
Reactive power	(kVA)	L1, L2, L3
Cos phi	(Cosφ)	L1, L2, L3
Power factor	(PF)	Sum
Energy	(kWh)	Sum
Fuse status	(EFM)	L1, L2, L3
Temperature	(°C)	Terminal L2
Switch position		On/Off
Motor Control		by bus
Communication bus		RS485
Protocol		Modbus RTU

Configurable Modbus RTU parameters

Default setting	19200 E,8,1 – Default Modbus addr. 3
Baudrates	9600, 19200
Parity, stop- start bits	E,8,1 – O,8,1 – N,8,2 – N,8,1
Modbus address range	1 – 247

Connection data at the ITS2.1 multiplug

1	24 VDC
2	24 V GND (0V)
3	RS-485 0V
4	RS-485 + (A)
5	RS-485 - (B)

Conductor cross section

Stranded min.	0,25 mm ²
Stranded max.	1,5 mm ²
Stranded, with ferrule without plastic sleeve max.	1,5 mm ²
Stranded, with ferrule with plastic sleeve max.	0,75 mm ²

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for electronic fuse monitor



OFM260



OFS260



OFD500EA



OFMZX2



OSZ4

Electronic fuse monitor

Includes the auxiliary contacts 1NO + 1NC. More information, see brochure OFM_OFS20GB.

Rated voltage [V]	Approvals	Mounting type	Type	Order number	Weight/unit [kg]
120...240/AC	IEC, UL and CSA	A	OFM240	1SCA022579R1340	0.2
120...260/AC	IEC	A	OFM260	1SCA022459R8560	0.14
380...600/AC	IEC, UL and CSA	A	OFM600	1SCA022579R1260	0.2
380...690/AC	IEC	A	OFM690	1SCA022459R8480	0.14
100...260/AC	IEC	B	OFS260	1SCA022716R0180	0.16
380...690/AC	IEC	B	OFS690	1SCA022715R9920	0.16
45...140/DC	IEC	B	OFD110EA	1SCA121775R1001	0.155
135...550/DC	IEC	B	OFD500EA	1SCA121776R1001	0.155

^A Mounting onto the left side of OS20F-40F (OS Mini) with a frame OSZ4 or on mounting plate.

^B Mounting onto the left side of OS32G-1250 switch fuse (right side of OSM motorized switch fuses) or on DIN-rail or on mounting plate.

Mounting accessories for fuse monitor

Suitable for switches	Flat terminal size [mm]	Type	Order number	Units/type [pcs]	Weight/unit [kg]
Crimp terminals					
OS_	1.5 - 2.8	OFMZX2	1SCA022475R9910	6	0.01
Mounting frame for OS Mini					
OS20F-40F		OSZ4	1SCA022530R0200	1	0.60

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for blown fuse indicators



OSD25P3

Blown fuse indicators (DPMM)

Striker type fuse is needed. See the dimensions in IEC60269-2-1, Section 1A.

Suitable for switches	Type	Order number	Weight/unit [kg]
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OSGD50P4

OS Mini OS25 ... 32FF

Suitable for OS Mini 25...32FF_ with cylindrical NFC striker fuses. Auxiliary contact (1x C/O) included. See the ratings on page 78, type OA4

for 3-pole switches	OSD25P3	1SCA022192R9060	0.10
for 4-pole switches, fused neutral	OSD25P4	1SCA022196R9520	0.10



OSGD125P3

OS/OSM50GF_

Auxiliary contacts (3 x C/O in 3-pole, 4 x C/O in 4-pole) included. Ratings: lth: 5A, AC15: 0.15A/250VAC. NEMA 5A, 125-250 VAC, 1/10 HP

for 3-pole switches	OSGD50P3	1SCA116401R1001	0.015
for 4-pole switches, fused neutral	OSGD50P4	1SCA115689R1001	0.020



OSZX3

OS/OSM125GF_

Auxiliary contacts (3 x C/O in 3-pole, 4 x C/O in 4-pole) included. Ratings: lth: 5A, AC15: 0.15A/250VAC. NEMA 5A, 125-250 VAC, 1/10 HP

for 3-pole switches	OSGD125P3	1SCA115690R1001	0.025
for 4-pole switches, fused neutral	OSGD125P4	1SCA115692R1001	0.035

OS/OSM250D...800D

Auxiliary contacts (3xNO + 3xNC in 3-pole and 4xNO + 4xNC in 4-pole) included. See the ratings on page 78, type OA1G_, OA3G_

for 3-pole switches	OSZX3	1SCA101224R1001	0.15
for 4-pole switches, fused neutral	OSZX4	1SCA101225R1001	0.20

Fuse status and corresponding auxiliary contact position

Auxiliary contact type	Fuse OK	Fuse blown
OA1G_		
OA3G_		

Accessories for manual operated switch fuses 32...1250 A

Ordering information for handles



OHB65J6



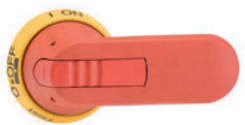
OHY65J6



OHG65J6



OHB95J12



OHY95J12T



OHB125J12

Pistol handles for front operated switch fuses

Plastic pistol handles, IP 65, Nema type 1, 3R, 12

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.

For shaft diameter 6 mm (for OSMini and OS32...250)

Colour	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF, grey: I-O.				
Black	45	OHB45J6	1SCA022380R8770	0.12
Red-yellow	45	OHY45J6	1SCA022380R8930	0.12
Grey	45	OHG45J6	1SCA022380R8850	0.12
Black	65	OHB65J6	1SCA022380R9660	0.12
Red-yellow	65	OHY65J6	1SCA022380R9820	0.12
Grey	65	OHG65J6	1SCA022380R9740	0.12
Black	80	OHB80J6	1SCA022381R0240	0.14

Black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O.

Black	45	OHB45J6T	1SCA109870R1001	0.12
Black	65	OHB65J6T	1SCA022399R8110	0.12
Red-yellow	65	OHY65J6T	1SCA022456R9540	0.12
Grey	65	OHG65J6T	1SCA022456R9620	0.12
Black	80	OHB80J6T	1SCA022399R8290	0.14

For shaft diameter 12 mm (for OS315...400)

Colour	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF, grey: I-O.				
Black	95	OHB95J12	1SCA022381R0830	0.16
Red-yellow	95	OHY95J12	1SCA022381R1050	0.16
Grey	95	OHG95J12	1SCA022381R0910	0.16

Indication: Test-OFF-ON/Test-O-I

Black	95	OHB95J12T	1SCA022736R1750	0.16
Red-yellow	95	OHY95J12T	1SCA022736R1910	0.16

For shaft diameter 12 mm (for OS630...800)

Colour	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF, grey: I-O.				
Black	125	OHB125J12	1SCA022381R1560	0.16
Red-yellow	125	OHY125J12	1SCA022381R1720	0.16
Grey	125	OHG125J12	1SCA022381R1640	0.16
Black	145	OHB145J12	1SCA022381R2110	0.17
Red-yellow	145	OHY145J12	1SCA022381R2370	0.17
Grey	145	OHG145J12	1SCA022381R2290	0.17
Black	175	OHB175J12	1SCA022381R2450	0.18
Red-yellow	175	OHY175J12	1SCA022381R2700	0.18
Grey	175	OHG175J12	1SCA022381R2610	0.18

Indication: Test-OFF-ON/Test-O-I

Black	125	OHB125J12T	1SCA022652R2220	0.16
Red-yellow	125	OHY125J12T	1SCA022652R2310	0.16
Black	145	OHB145J12T	1SCA022652R2570	0.17
Red-yellow	145	OHY145J12T	1SCA022652R2650	0.17
Black	175	OHB175J12T	1SCA022708R0740	0.18

- Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.
- Handles padlockable in all positions and NEMA4/4X handles are available on request.

Accessories for manual operated switch fuses 32...1250 A

Ordering information for handles



OHB274/330J12



OHY274J12



OHM_

Pistol handles for front operated switch fuses

Plastic pistol handles, IP 65, Nema type 1, 3R, 12

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Screw fixing from the back side of the handle ensures double insulation.

For shaft diameter 12 mm (for OS1200...1250)

Colour	Handle length [mm]	Type	Order number	Weight/unit [kg]
Black and red-yellow: I-O/ON-OFF.				
Black	274	OHB274J12	1SCA115920R1001	0.54
Red-yellow	274	OHY274J12	1SCA115919R1001	0.54
Black	330	OHB330J12	1SCA115922R1001	0.58
Red-yellow	330	OHY330J12	1SCA115921R1001	0.58
Black	2x150	OHB150J12P	1SCA022865R9430	0.17
Red-yellow	2x150	OHY150J12P	1SCA101586R1001	0.17
Black	2x200	OHB200J12P	1SCA022865R9510	0.40
Red-yellow	2x200	OHY200J12P	1SCA101587R1001	0.40

Indication: Test-OFF-ON/Test-O-I

Black	274	OHB274J12T	1SCA120250R1001	0.54
Black	330	OHB330J12T	1SCA120252R1001	0.58
Black	2x200	OHB200J12PT	1SCA106510R1001	0.40

- Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position. This can be defeated to allow authorized personnel access for inspection.
- Handles padlockable in all positions and NEMA4/4X handles are available on request.

Stainless steel pistol handles, IP66, NEMA 4X

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position, indication: I-O/ON-OFF

For shaft diameter 6 mm (for OSMini and OS32...250)

Colour	Handle length [mm]	Type	Order number	Weight/unit [kg]
Metallic	45	OHM45L6	1SCA111295R1001	0.70
Metallic	65	OHM65L6	1SCA022739R1070	0.73

For shaft diameter 12 mm

Metallic	125	OHM125L12	1SCA022739R1150	0.76
Metallic	175	OHM175L12	1SCA022739R1230	0.83
Metallic	275	OHM275L12	1SCA022832R4840	0.96

Accessories for manual operated switch fuses 32...1250 A

Ordering information for handles



OHB65J6E00S



OHY65J6E00S



OHZX14

Pistol handles for side operated switch fuses

Plastic pistol handles, IP 65, Nema type 1, 3R, 12

For mounting on the side of the enclosure. Padlockable with three padlocks in the OFF-position, door interlock in the ON-position, IP 65. The position indications are rotated 90°. If the handle is mounted on the front of the door, a standard handle can be used as well.

For shaft diameter 6 mm

Colour	Handle length [mm]	Type	Order number	Weight/unit [kg]
Plastic handles, black and red-yellow: I-O/ON-OFF, grey: I-O.				
Black	65	OHB65J6E00S	1SCA022382R9850	0.12
Red-yellow	65	OHY65J6E00S	1SCA022382R9930	0.12
Grey	65	OHG65J6E00S	1SCA022383R4510	0.12
Plastic handles, black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O.				
Black	65	OHB65J6TE00S	1SCA109016R1001	0.12
Red-yellow	65	OHY65J6TE00S	1SCA022688R0140	0.12
Grey	65	OHG65J6TE00S	1SCA109014R1001	0.12

For shaft diameter 12 mm

Plastic handles, indication I-O/ON-OFF

Black	145	OHB145J12E00S	1SCA022679R9700	0.17
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- Door interlocking in the ON-position means that the door cannot be opened, when the handle is in the ON-position.

- This can be defeated to allow authorized personnel access for inspection.

- Handles padlockable in all positions are available on request.

Extension ring for pistol handles

Suitable for handles	Colour	Type	Order number	Weight/unit [kg]
OHB_	Black	OHZX14	1SCA022851R6590	0.06

Accessories for manual operated switch fuses 32...1250 A

Ordering information for handles



OSV250DK



OSV400DK



OSV1250DK



OHB4



Direct mount handles for front operated switch fuses

Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for OS 32G...1250

Suitable for switches	Colour	Type	Order number	Weight/unit [kg]
Indication: Test OFF-ON/Test O-I indication Padlockable with three padlocks in the OFF-position, optionally also in the ON-position. Includes shaft and mechanism cover.				
OS32G...160G (not OS_GJ types)	Black	OSV200BK	1SCA022779R7530	0.14
OS200B/J	Red-yellow	OSVY200BK	1SCA022779R7700	0.14
OS60GJ, OS100GJ	Black	OSV250DK	1SCA022763R3510	0.16
OS200D...250D/B	Black	OSV250DK	1SCA022763R3510	0.16
OS200D...250D/B	Red-yellow	OSVY250DK	1SCA022778R6500	0.16
OS400D	Black	OSV400DK	1SCA022763R4230	0.34
OS400D	Red-yellow	OSVY400DK	1SCA022779R5590	0.34
OS315...400B/J	Black	OSV400BK	1SCA022763R3930	0.33
OS315...400B/J	Red-yellow	OSVY400BK	1SCA022779R5830	0.33
OS600...800	Black	OSV800DK	1SCA107794R1001	1.1
OS600...800	Red-yellow	OSVY800DK	1SCA108703R1001	1.1
OS1200...OS1250	Black	OSV1250DK	1SCA107797R1001	1.5
OS1200...OS1250	Red-yellow	OSVY1250DK	1SCA108702R1001	1.5

Direct mount handles for side operated switch fuses

Panel board handle, can be padlocked in the OFF-position. Includes a special shaft. The handle can also be used with a standard shaft as padlocking device.

Suitable for OS Mini

Padlockable with three padlocks in the OFF- position when the door is open. Max. bail dia 6 mm.

Suitable for switches	Colour	Type	Order number	Weight/unit [kg]
OS20F...40F_	Black	OHB4	1SCA022439R4050	0.05

Fuse replacement handles



For DIN-fuse sizes	Type	Order number	Weights/unit [kg]
000, 00, 0, 1, 2, 3, 4	OFAE506	1SCA128175R1001	0.2

Accessories for switch fuses OS Mini 20...40 A

Ordering information for shafts



Extended shafts

Shaft length [mm]			Type	Order number	Weight/unit [kg]
	Front operated H [mm]	Side operated H [mm]			
For OS 16...35 (Mini)²⁾, shaft diameter 6 mm					
150	135...210	154...166	OXF6X150 ⁵⁾	1SCA022295R5600	0.05
170	155...230	174...186	OXF6X170	1SCA108224R1001	0.05
265	250...325	269...281	OXF6X265	1SCA108225R1001	0.08
400	385...460	404...416	OXF6X400	1SCA108226R1001	0.12
150	135...210	154...166	OXF6X150-45 ¹⁾	1SCA022294R4400	0.05
170	155...230	174...186	OXF6X170-45 ¹⁾	1SCA108227R1001	0.05
265	380...460	269...281	OXF6X265-45 ¹⁾	1SCA108228R1001	0.08
400	380...460	404...416	OXF6X400-45 ¹⁾	1SCA108229R1001	0.12
For OS 40 (Mini)²⁾, shaft diameter 6 mm					
150	135...210	235...243	OXF6X150 ⁵⁾	1SCA022295R5600	0.05
170	155...230	255...363	OXF6X170	1SCA108224R1001	0.05
265	250...325	352...360	OXF6X265	1SCA108225R1001	0.08
400	385...460	487...495	OXF6X400	1SCA108226R1001	0.12
150	135...210	235...243	OXF6X150-45 ¹⁾	1SCA022294R4400	0.05
170	155...230	255...363	OXF6X170-45 ¹⁾	1SCA108227R1001	0.05
265	250...325	352...360	OXF6X265-45 ¹⁾	1SCA108228R1001	0.08
400	385...460	487...495	OXF6X400-45 ¹⁾	1SCA108229R1001	0.12
For OS 32G...63G⁴⁾, shaft diameter 6 mm					
63		161...167	OXF6X63	1SCA111010R1001	0.02
90		188...194	OXF6X90	1SCA022064R1180	0.03
130	127...174 ⁶⁾	228...234	OXF6X130	1SCA022057R0570	0.04
161	138...205		OXF6X161 ³⁾	1SCA022067R1760	0.05
210	187...254		OXF6X210	1SCA022295R6080	0.06
290	267...334		OXF6X290	1SCA022042R6370	0.08
360	337...404		OXF6X360	1SCA022042R6530	0.10
430	407...474		OXF6X430	1SCA022056R6030	0.12
210	187...254		OXF6X210-45 ¹⁾	1SCA022294R4230	0.06
290	267...334		OXF6X290-45 ¹⁾	1SCA022304R4290	0.08
360	337...404		OXF6X360-45 ¹⁾	1SCA022341R4640	0.10

¹⁾ The shaft position is rotated 45 degrees.

²⁾ Side operated, 4-pole: add 36 mm.

³⁾ Included as standard in P-types.

⁴⁾ Side operated 3-pole OS60G: add 33mm, 4-pole types: OS32...63GD/GB: add 23.5 mm, OS60GJ: add 68mm.

⁵⁾ Included as standard in front operated types.

⁶⁾ OS32...63GB/GF: 115...174.

Accessories for manual operated switch fuses 32...1250 A

Ordering information for shafts



OXP6X_



OXP_X_-45



OHP12X_

Extended shafts

Shaft length [mm]	Front operated H [mm]	Side operated H [mm]	Type	Order number	Weight/unit [kg]
For OS100G...160G²⁾, shaft diameter 6 mm					
63		161...167	OXP6X63	1SCA111010R1001	0.02
90		188...194	OXP6X90	1SCA022064R1180	0.03
130	127...174 ⁴⁾	228...234	OXP6X130	1SCA022057R0570	0.04
161	138...205		OXP6X161 ³⁾	1SCA022067R1760	0.05
210	187...254		OXP6X210	1SCA022295R6080	0.06
290	267...334		OXP6X290	1SCA022042R6370	0.08
360	337...404		OXP6X360	1SCA022042R6530	0.10
430	407...474		OXP6X430	1SCA022056R6030	0.12
210	187...254		OXP6X210-45 ¹⁾	1SCA022294R4230	0.06
290	267...334		OXP6X290-45 ¹⁾	1SCA022304R4290	0.08
360	337...404		OXP6X360-45 ¹⁾	1SCA022341R4640	0.10
For OS 200...250 DIN-type, shaft diameter 6 mm					
161	160...205	321...327	OXP6X161	1SCA022067R1760	0.05
210	189...254	370...376	OXP6X210 ³⁾	1SCA022295R6080	0.06
290	269...334		OXP6X290	1SCA022042R6370	0.08
For OS 200...250 BS-type, shaft diameter 6 mm					
161	140...205	321...327	OXP6X161	1SCA022067R1760	0.05
210	189...254	370...376	OXP6X210 ³⁾	1SCA022295R6080	0.06
290	269...334		OXP6X290	1SCA022042R6370	0.08
For OS 315...400, shaft diameter 12 mm					
250	230...325	489...495	OXP12X250 ³⁾	1SCA022325R6980	0.30
280	260...355	519...525	OXP12X280	1SCA022137R5140	0.30
325	305...400		OXP12X325	1SCA022042R5810	0.36
395	375...470		OXP12X395	1SCA022042R5990	0.43
465	445...540		OXP12X465	1SCA022042R6020	0.51
535	515...610		OXP12X535	1SCA022042R6110	0.59

¹⁾ The shaft position is rotated 45 degrees.

²⁾ Side operated, 4-pole: add 35 mm.

³⁾ Included as standard in P-types.

⁴⁾ OS100GJ: 113...174, OS100GB...160GB: 121...174.

Accessories for manual operated switch fuses 32...1250 A

Ordering information for shafts



OXP12X_





OXP12X250-45



OETLZX95

Extended shafts

Shaft length [mm]	 Front operated	 Side operated	Type	Order number	Weight/unit [kg]
	H [mm]	H [mm]			
For OS 630...800, shaft diameter 12 mm					
280	258...382	645...651	OXP12X280 ²⁾	1SCA022137R5140	0.30
325	303...427		OXP12X325	1SCA022042R5810	0.40
395	373...497		OXP12X395	1SCA022042R5990	0.50
465	443...567		OXP12X465	1SCA022042R6020	0.60
535	513...637		OXP12X535	1SCA022042R6110	0.70
280	258...382		OXP12X280-45 ¹⁾	1SCA022382R0800	0.30
325	303...427		OXP12X325-45 ¹⁾	1SCA022304R4450	0.40
For OS 1200...1250, shaft diameter 12 mm					
395	366...495 ³⁾	371...500 ⁴⁾	OXP12X395 ²⁾	1SCA022042R5990	0.43
465	436...565 ³⁾	441...570 ⁴⁾	OXP12X465	1SCA022042R6020	0.51
535	506...635 ³⁾	441...571 ⁴⁾	OXP12X535	1SCA022042R6110	0.59

¹⁾ The shaft position is rotated 45 degrees.

²⁾ Included as standard in front operated P-types.

³⁾ H with handle OH_274/330J12.

⁴⁾ H with handle OHB150/200J12P.

Shaft extension socket

For extending the shaft of combination attachment.

Suitable for shaft with diameter [mm]	Type	Order number	Weight/unit [kg]
12	OETLZX95	1SCA022083R5620	0.04

Accessories for switch fuses OS Mini 20...40 A

Ordering information for auxiliary contacts



OA4B10



MCB-10



OA3G01



OSZ4



OESAZX169

Auxiliary contacts for OS20F...40F_ (OS Mini)

Units/type = 1 piece

Mounting to the switch mechanism

Description	Type	Order number	Weight/unit [kg]
Change over contacts Auxiliary/test contacts. Max. two change over contacts.			
See function chart below	OA4B1C	1SCA022193R0150	0.03
Single pole contacts > 3 mm contact gap.			
1 NO	OA4B10	1SCA022276R9050	0.03
1 NC	OA4B01	1SCA022276R9210	0.03

Mounting on the side of the switch

Description	Type	Order number	Weight/unit [kg]
Mounting on the side of the switch with aux.contact frame OESAZX169			
1NO	MCB-10	1SCA022150R5110	0.03
1NC	MCB-01	1SCA022150R5370	0.03

Snap-on mounting on the switch, by using a frame OSZ4, IP20

NO contacts are provided with a positive opening feature.

Types _AU have gold plated contacts for harsh environments and low operating voltages.

1 NO	OA1G10	1SCA022353R4970	0.03
1 NC	OA3G01	1SCA022456R7410	0.03
1 NO	OA1G10AU	1SCA022436R7910	0.03
1 NC	OA3G01AU	1SCA022819R5260	0.03

Mounting frames for auxiliary contacts of OS20F...40F_ (OS Mini)

Description	Amount of auxiliary contacts [pcs]	Type	Order number	Weight/unit [kg]
Frame for auxiliary contacts OA1G10 and OA3G01 and for fuse monitor OFM_				
Mounting on the left side of the switch	max. 6	OSZ4	1SCA022530R0200	0.06
Frame for MCB-_ auxiliary contacts. Not suitable for side operated switches				
Mounting on the right side of the switch	max. 6	OESAZX169	1SCA022196R9360	0.06

Function chart, change over contacts OA4B1C / OS Mini

Handle position	Main contacts	Aux./Test contacts N.O.
Test	open	closed
0	open	open
I	closed	closed

Accessories for manual operated switch fuses 32...1250 A

Ordering information for auxiliary contacts



OA1G10, OA3G01

Auxiliary contact blocks for OS/OSM32G...1250

Suitable for switches	Description	Protection degree	Type	Order number	Weight/unit [kg]
OS/OSM32G...1250	1NO	IP20	OA1G10	1SCA022353R4970	0.03
OS/OSM32G...1250	1NC	IP20	OA3G01	1SCA022456R7410	0.03
OS/OSM32G...1250	1NO	IP20	OA1G10AU ¹⁾	1SCA022436R7910	0.03
OS/OSM32G...1250	1NC	IP20	OA3G01AU ¹⁾	1SCA022819R5260	0.03

¹⁾Types _AU have gold plated contacts for harsh environments and low operating voltages.

Mounting under the mechanism cover

The “test” contacts operate in ON- and OFF-positions as well as when the handle is turned to TEST-position = 45 degrees over the OFF-position. The “test indication” contacts operate only when the handle is turned to TEST-position. See the function table below. The OA1G10 (N.O.) or OA3G01 (N.C.) auxiliary contact blocks can be used as standard auxiliary contacts, “test” or “test indication” contacts. The desired functions are achieved when an auxiliary contact block is installed in a specific place shown in the mounting instruction. In order to activate the “test” and “test indication” features, a handle with test function is required. See the optional handles, pages 71-74.

Function table of OS/OSM32G...1250 auxiliary contacts

Handle position	Main contacts	Aux./Test contacts N.O.	Test indication contacts N.O.
Test	open	closed	closed
0	open	open	open
I	closed	closed	open

Maximum number of contact blocks, “Aux./test” contacts and “test indication” contacts, see the table below.

Standard versions include all except for N3-types, which are equipped with integrated neutral through the mechanism.

Maximum number of auxiliary contacts under the mechanism cover

	OS/OSM32G...250		OS/OSM315...800		OS/OSM1200...1250	
	Standard	N3	Standard	N3	Standard	N3
Pole version						
Maximum number of contact blocks	4	0	8	4	12	8
Aux./Test contacts	4	0	4	2	8 ¹⁾	6 ²⁾
Test indication contacts	2	0	4	2	4	2

For contact timing, see page 81.

¹⁾ 6 aux./test contacts and 2 early operation aux./test contacts.

²⁾ 4 aux./test contacts and 2 early operation aux./test contacts.

Mounting on the left side of the OS switch fuse:

Maximum 8 auxiliary contact blocks (N.O. or N.C.) with the OEA28 module. Side operated types: OS_S30..._S40 types only.

Mounting on the right side of the OSM motorized switch fuse:

Maximum 4 auxiliary contact blocks (N.O. or N.C.), snap-on mounting

Mounting plate for auxiliary contacts

Mount on the switch mechanism, max. 3 auxiliary contacts.

Suitable for switches	Type	Order number
R: Mounting on the right side of the switch L: mounting on the left side of the switch		
OS100G...200G_	OEA30R	1SCA131817R1001
OS100G...200G_	OEA30L	1SCA131816R1001

Accessories for manual operated switch fuses 32...1250 A

Technical information for auxiliary contacts



OEA28

Module for auxiliary contacts for OS32...1250

Description	Type	Order number	Weight/unit [kg]
Screw mounting to the left side of the switch	OEA28	1SCA022714R8810	0,04

Performance data for auxiliary contacts according to IEC 60947-5-1

OA1G_, OA3G_

U _i /[V]	690
U _{imp} /[kV]	4
Pollution degree	3
I _{th} /[A]	16
Cable size	1...2 x 0,75...2.5m ²
Maximum fuse	16 A/gG
NEMA	A600,R300
Wire size	18 - 14AWG, 1 (2)

OA1G_, OA3G_

U _e /[V]	AC15		DC12			DC13
	I _e /[A]	U _e /[V]	I _e /[A]	P/[W]	I _e /[A]	P/[W]
230	6	24	10	240	2	48
400	4	72	4	288	0.8	58
690	2	125	2	250	0.55	69
		250	0.55	138	0.27	68
		440	0.1	44		

OA4_

EN61058-1

U _i /[V]	400
I _{th} /[A]	10
I _g	400V AC
	10 (4) A, 10E3
	6 (2,5) A, 50E3
NEMA	10 A, 125-250V AC, 1/4 HP
M3 Screw connection	

MCB_

IEC60947-5-1

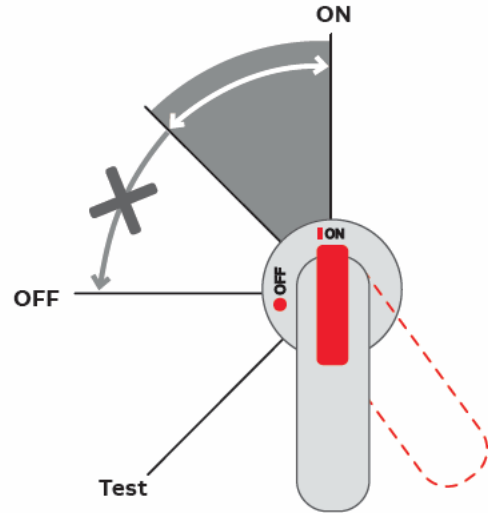
U _i /[V]	690			
I _{th} /[A]	10			
I _e /[A]		AC12	AC15	DC13
	24V	10	8	5
	110V	10	8	11
	220/240V	10	6	0,55
	250V		4	0,55
	380/415V		4	
	660/690V		2	
NEMA	A600, 10A, 600VAC			

Accessories for switch fuses OS Mini 20...40A

Technical information for auxiliary contacts

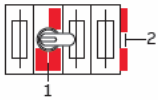
Handle indications and functions

- The handle indicates the position of the contacts with complete reliability in all situations. If the contacts are welded together, the handle doesn't reach the OFF-position but remains between ON and OFF, maintaining the door interlock and padlocking is not possible to do.
- When operating the switch fuse to the Test-position with a test handle the test auxiliary contacts change position. The main contacts remain open.

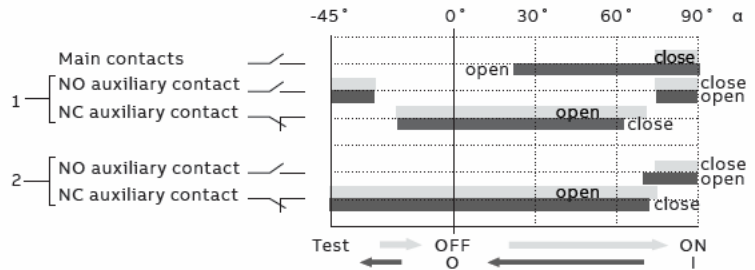


ON and OFF-functions of main and auxiliary contacts

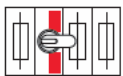
Example



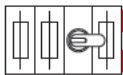
Places of auxiliary contacts and Test ind.



OS Mini

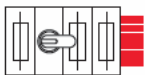
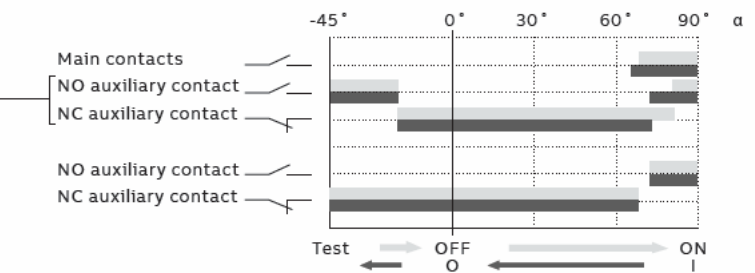


OA4B1C, 1 NO-NC

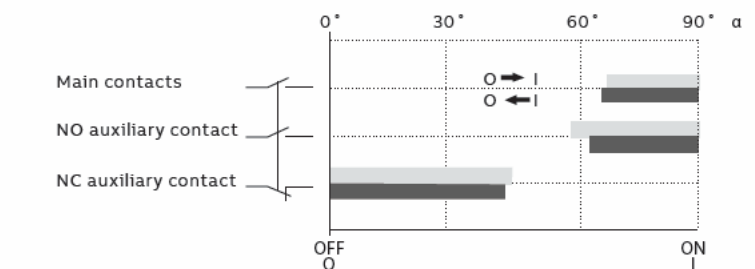


OA1G10, 1NO
OA3G01, 1NC

Change over contacts



MCB-10 + OESAZX169, 1NO
MCB-01 + OESAZX169, 1NC

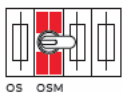


Accessories for manual operated switch fuses 32...1250 A

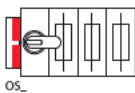
Technical information for auxiliary contacts

ON- and OFF-functions of main and auxiliary contacts

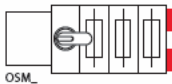
OS/OSM32G...1250



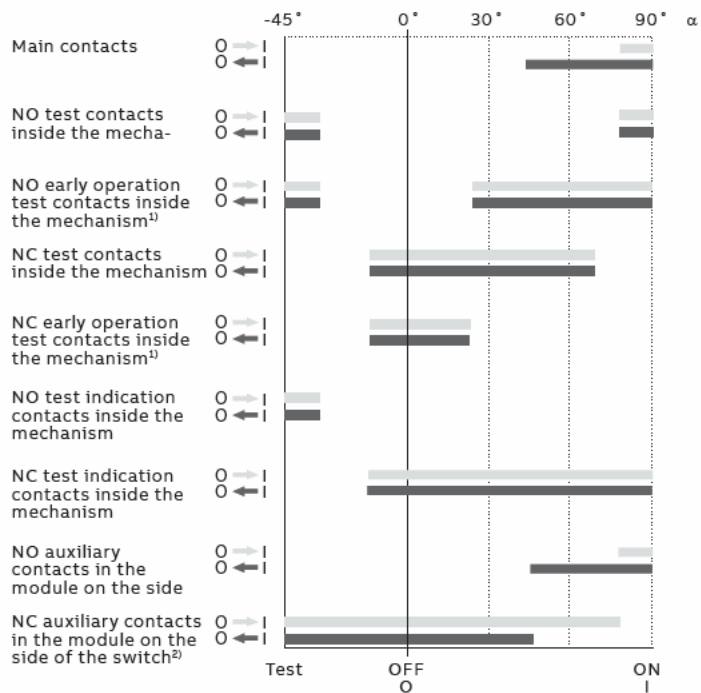
OA1G10, 1NO
OA3G01, 1NC



OA1G10, 1NO
OA3G01, 1NC
+ OEA28



OA1G10, 1NO
OA3G01, 1NC



¹⁾ OS/OSM1200...1250 only

²⁾ Also OSM32G...1250 mounted on the right side of the switch

Accessories for manual operated switch fuses 32...1250 A

Ordering information for fourth poles



OSP200-400D



OSP160GN



OSP250N



OSP800N

Fourth poles

Snap-on mounting to the side of the switch (not suitable for motorized OSM-types).

Suitable for 3-pole switches	Mounting side	Type	Order number	Weight/unit [kg]
Switched fusible				
OS100GB...160GB	Left/right	OSP160GB	1SCA114769R1001	0.45
OS125GD...160GD	Left/right	OSP160GD	1SCA114768R1001	0.45
OS200B	Left/right	OSP200B	1SCA022735R9180	1.20
OS200D	Left/right	OSP200D	1SCA022735R8960	1.20
OS250B	Left/right	OSP250B	1SCA022770R4030	1.20
OS250D	Left/right	OSP250D	1SCA022735R9340	1.20
OS315B...400B	Left/right	OSP400B	1SCA022770R3140	2.00
OS400D	Left/right	OSP400D	1SCA022770R3220	2.00
OS600J	Left/right	OSP600J	1SCA151731R1001	4.20
OS630...800D	Left/right	OSP800D	1SCA100433R1001	4.20
OS630...800B	Left/right	OSP800B	1SCA100434R1001	4.20
OS800L	Left/right	OSP800L	1SCA151732R1001	4.20
OS1200L	Left/right	OSP1200L	1SCA151730R1001	7.20
OS1250D	Left/right	OSP1250D	1SCA107946R1001	7.20
OS1250DA	Left/right	OSP1250DA	1SCA112402R1001	7.20
OS1250B	Left/right	OSP1250B	1SCA107950R1001	7.20
Switched				
OS100G...160G	Left/right	OSP160GN	1SCA114770R1001	0.45
OS200_	Left/right	OSP200N	1SCA022735R8700	1.20
OS250_	Left/right	OSP250N	1SCA022735R9260	1.20
OS400_	Left/right	OSP400N	1SCA022770R3490	1.20
OS630...800	Left/right	OSP800N	1SCA100432R1001	4.40
OS1200...1250	Left/right	OSP1250N	1SCA107943R1001	7.20

Accessories for manual and motorized switch fuses 20 ...1250 A

Ordering information for neutral links



OSZ1

Neutral links

For OS20F...OS40F

Detachable, mounting onto base plate or DIN-rail

Max. wire	H/W/D [mm]	Mounting holes	Type	Order number	Weight/unit [kg]
16 mm ²	39/41/40	ø 4.2, distance 35	OESAZX171	1SCA022197R2580	0.06

For OS/OSM 32G...160G

Detachable, mounting onto the base plate or DIN-rail.

Max. wire	H/W/D [mm]	Mounting holes	Type	Order number	Weight/unit [kg]
16 mm ² Cu	39/41/40	ø 4.2, distance 32	OSZ1	1SCA022481R3710	0.06
35 mm ² Cu	39/44/45	ø 4.2, distance 35	OSZ2	1SCA022481R3800	0.07

For OS/OSM 100G...1250

Mounting with screws (included) onto either side of the switch (OXN250 to OS200...250) or on the base plate (OXN250...1250) according the table below.

Suitable for switches	Type	Order number	Weight/unit [kg]
Detachable, mounting on the switch			
OS200...250	OXN250	1SCA022752R9950	0.40
Detachable, mounting on the base plate			
OS/OSM32G...250	OXN250	1SCA022752R9950	0.40
OS/OSM315...400	OXN400	1SCA022770R3060	0.70
OS/OSM630...800	OXN800S	1SCA022831R4880	1.20
OS/OSM1250	OXN1250S	1SCA104163R1001	2.50



OXN250



OXN400



OXN800S

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for handle and spare fuse storage clip



OTVS1



OTVS2



PB200 high

Solid links

Suitable for switches	Type	Order number	Weight/unit [kg]
OS32GD...OS160GD	OFAW00	1SCA022003R9680	0.08
OS200...250B, J	OEZNL1	1SCA022723R7400	0.19
OS600J, 800...1200L	OEZNL8	1SCA113998R1001	0.58
OS1250B	OEZNL10	1SCA116437R1001	0.60
OS250 D	OFAW1	1SCA022003R9760	0.15
OS400 D	OFAW2	1SCA022003R9840	0.24
OS630/800 D	OFAW3	1SCA022003R9920	0.28
OS1250 D	OFAW4	1SCA022842R5440	0.665
OS1250 D	OFAW4a	1SCA148430R1001	0.665

Handle and spare fuse storage clip for OSM

Handle and two spare fuses (for motor operator) can be stored on the OTVS_. OTVS_ can be installed on the left side of the motorized switch-fuse OSM_. Snap-on mounting, no tools required. On OSM1250, the size of the handle prevents the installation onto the switch frame. However, the handle clip can be separately installed on the panel frame and the fuse holder clip onto the switch frame.

Suitable for switches	Type	Order number	Weight/unit [kg]
OSM32G...250	OTVS1	1SCA111413R1001	0.02
OSM315...1250	OTVS2	1SCA111414R1001	0.04

Phase barriers

The phase barriers designed for ABB Tmax T4-T5 MCCB's can also be used for OS200...400 switch fuses. 3-pole switch fuses need 4 barriers and 4-pole switch fuses need 6 barriers for full protection. Cutting width of the phase barrier 55mm.

Suitable for switches	No. of poles	Height h[mm]	Type	Order number	Units/type [pcs]
OS100G...OS200	3	-	OSB160/4	1SCA131820R1001	4
OS100G...OS200	3	-	OSB160/6	1SCA131821R1001	6
OS250	3	-	OSB250/4	1SCA131822R1001	4
OS250	4	-	OSB250/6	1SCA131823R1001	6
OS315, OS400	3	200	PB200 high	1SDA054972R1	4
OS315, OS400	4	200	PB200 high	1SDA054973R1	6

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for terminal shrouds



OSS200G1L



OSS200G1S



OSS250G1L



OSS800G1L



OSS800G1S



OSS250G1SH

Terminal shrouds

Suitable for switches	Description	Type	Order number	Units/type [pcs]	Weight/unit [kg]
Pack of single pole terminal shrouds					
Snap-on mounting, grey plastic, IP 3X from front. Transparent shrouds available on request.					
OS/OSM100G...160G, OS200GB	Long type	OSS160GG1L/3	1SCA114764R1001	3	0.08
OS/OSM100G...160G, OS200GB	Short type	OSS160GG1S/3	1SCA114766R1001	3	0.05
OS/OSM100G...160G, OS200GB	Long type	OSS160GG1L/4	1SCA114765R1001	4	0.11
OS/OSM100G...160G, OS200GB	Short type	OSS160GG1S/4	1SCA114767R1001	4	0.07
OS/OSM200	Long type	OSS200G1L/3	1SCA022731R8910	3	0.09
OS/OSM200	Short type	OSS200G1S/3	1SCA022732R0130	3	0.06
OS/OSM200	Long type	OSS200G1L/4	1SCA022731R9040	4	0.12
OS/OSM200	Short type	OSS200G1S/4	1SCA022732R0050	4	0.08
OS/OSM250	Long type	OSS250G1L/3	1SCA022731R9390	3	0.09
OS/OSM250	Short type	OSS250G1S/3	1SCA022731R9550	3	0.06
OS/OSM250	Long type	OSS250G1L/4	1SCA022731R9470	4	0.12
OS/OSM250	Short type	OSS250G1S/4	1SCA022731R9630	4	0.08
OS/OSM315...400	Long type	OSS400G1L/3	1SCA022776R6650	3	0.18
OS/OSM315...400	Short type	OSS400G1S/3	1SCA022776R6900	3	0.10
OS/OSM315...400	Long type	OSS400G1L/4	1SCA022776R6730	4	0.25
OS/OSM315...400	Short type	OSS400G1S/4	1SCA022776R7030	4	0.15
OS/OSM600...800	Long type	OSS800G1L/3	1SCA022776R7200	3	0.53
OS/OSM600...800	Short type	OSS800G1S/3	1SCA022776R7540	3	0.21
OS/OSM600...800	Long type	OSS800G1L/4	1SCA022776R7380	4	0.70
OS/OSM600...800	Short type	OSS800G1S/4	1SCA022776R7460	4	0.28
OS1200...1250/ OSM1250	Long type	OSS1250G1L/3	1SCA107938R1001	3	0.76
OS1200...1250/ OSM1250	Short type	OSS1250G1S/3	1SCA107939R1001	3	0.40
OS1200...1250/ OSM1250	Long type	OSS1250G1L/4	1SCA107940R1001	4	1.00
OS1200...1250/ OSM1250	Short type	OSS1250G1S/4	1SCA107941R1001	4	0.52
Terminal shrouds suitable for mechanisms with detachable integrated neutral (N3 versions)					
OS/OSM100G...250_N3_	Long type	OTS250G1L	1SCA022715R5340	1	0.03
OS/OSM100G...250_N3_	Short type	OTS250G1S	1SCA022715R5260	1	0.02
OS/OSM315...400_N3_	Long type	OSS250G1L	1SCA022727R5080	1	0.03
OS/OSM315...400_N3_	Short type	OSS250G1S	1SCA022727R4940	1	0.02
OS/OSM630...800_N3_	Long type	OTS800G1L	1SCA022776R7710	1	0.10
OS/OSM630...800_N3_	Short type	OTS800G1S	1SCA022776R8010	1	0.06
OS1200...1250/OSM1250_N3_	Long type	OTS1600G1L	1SCA106134R1001	1	0.20
OS1200...1250/OSM1250_N3_	Short type	OTS1600G1S	1SCA102667R1001	1	0.12
Single pole terminal shroud for the fourth pole side terminals (LR-types)					
IP20, snap-on mounting, grey plastic.					
OS250_LR	Short type	OSS250G1SH/1	1SCA103500R1001	1	0.003
OS400_LR	Short type	OSS400G1SH/1	1SCA103503R1001	1	0.003

Please consult us when using OS600J...OS800L with OZXA-800 lugs.

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for terminal shrouds



OSS160GG3LS



OSS400G3LS



OEZXU14

Terminal shrouds:

Three and four pole terminal shrouds for side terminals (LR types)

IP20. Snap-on mounting, grey plastic.

Suitable for switches	No. of poles	Remarks	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OS100G...160G_LR	3	Long type	OSS160GG3LS	1SCA121570R1001	1	0.01
OS100G...160G_LR	4	Long type	OSS160GG4LS	1SCA121571R1001	1	0.01
OS200...400_	3	Short type	OSS400G3SS	1SCA100390R1001	1	0.01
OS200...400_	3	Long type	OSS400G3LS	1SCA100396R1001	1	0.01
OS200...400_	4	Left side, short	OSS400G4SSL	1SCA100392R1001	1	0.01
OS200...400_	4	Left side, long	OSS400G4LSL	1SCA100398R1001	1	0.01
OS200...400_	4	Right side, short	OSS400G4SSR	1SCA100394R1001	1	0.01
OS200...400_	4	Right side, long	OSS400G4LSR	1SCA100400R1001	1	0.01

Single pole shroud for terminal clamps

Snap-on mounting, transparent plastic, IP 2X.

Suitable for clamps	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OZXB2, 2L	OZXB2K	1SCA022264R0010	3	0.06
OZXB3, 4	OZXB3K	1SCA022264R0440	3	0.18
OZXB5, 6	OZXB4K	1SCA022199R2850	3	0.24
OZXB7, 7L	OZXB5K	1SCA022283R8040	3	0.15

Terminal angle for side terminals (LR types)

Terminal angle extension bar for cable connections in upper or lower position. Including terminal bolts M10x30.

Suitable for switches	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OS100G...160G_LR, 3-pole	OEZXU68/3	1SCA121380R1001	3	
OS100G...160G_LR, 4-pole	OEZXU68/4	1SCA121379R1001	4	
OS200...400_LR	OEZXU14/3	1SCA100361R1001	3	0.24
OS200...400_LR	OEZXU14/4	1SCA101082R1001	4	0.32

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for terminal clamp sets



OZXT1



OZXB8



OZXB2L



OZXB17

Terminal clamp sets

Suitable for switches	Cable cross section [mm ²]	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Insulated versions					
OS/OSM32G...63G	16...50 Al, 2.5...50 Cu	OZXT1	1SCA022469R6310	3	0.05

OZXB-type Al/Cu connectors made of stainless steel

Suitable for switches	Cable cross section [mm ²]	Suitable shroud	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
OS/OSM100G...160G ¹⁾	10...70	OSS160G_	OZXB1L	1SCA022169R2030	3	0.15
OS/OSM100G...160G ¹⁾	95...185	OSS160G_	OZXB8	1SCA022744R1510	3	0.50
OS/OSM200	10...70	OSS200_L	OZXB1L	1SCA022169R2030	3	0.15
OS/OSM200	25...120	OZXB2K	OZXB2	1SCA022119R7610	3	0.34
OS/OSM200 ²⁾	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.42
OS/OSM200	95...185	OSS200_L	OZXB8	1SCA022744R1510	3	0.50
OS200	95...240	OSS200_L	OZXB9	1SCA022750R3210	3	0.50
OSM250	10...70	OSS200_L	OZXB1L	1SCA022169R2030	3	0.15
OS/OSM250 ²⁾	25...120	OZXB2K	OZXB2L	1SCA022158R7750	3	0.42
OS/OSM250 ²⁾	95...185	OZXB3K	OZXB3	1SCA022136R8100	3	1.30
OS/OSM250 ²⁾	2x(95...185)	OZXB3K	OZXB4	1SCA022137R4760	3	1.70
OS/OSM250 ²⁾	120...300	OZXB4K	OZXB5	1SCA022137R2470	3	2.30
OS/OSM250 ²⁾	120...240	OZXB5K	OZXB7L	1SCA022185R7130	3	1.20
OS/OSM250 ²⁾	95...185	OSS250_L	OZXB8	1SCA022744R1510	3	0.50
OS250 ²⁾	95...240	OSS250_L	OZXB9	1SCA022750R3210	3	0.50
OS200...400_LR_	95...240	OSS400G4LSL	OZXB17	1SCA022859R3230	3	0.53

¹⁾ Suitable for OS125G...160G_LR -types only with terminal angle OEZXU68.

²⁾ Suitable for OS250_BB -types, OS200B_LR, for OS250_LR types suitable only with terminal angle OEZXU14.

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for terminal clamp sets



OZXB2L



OZXB8

Terminal clamp sets

Suitable for switches	Cable cross section [mm ²]	Type	Order number	Units/type [pcs]	Weight/unit [kg]	
OZXB-type Al/Cu connectors made of stainless steel						
OS/OSM315...400 ¹⁾	25...120	OSS400_L	OZXB2L	1SCA022158R7750	3	0.42
OS/OSM315...400 ¹⁾	95...185	OZXB3K	OZXB3	1SCA022136R8100	3	1.30
OS/OSM315...400 ¹⁾	2x(95...185)	OZXB3K	OZXB4	1SCA022137R4760	3	1.70
OS315...400 ¹⁾	120...300	OZXB4K	OZXB5	1SCA022137R2470	3	2.30
OS315...400 ¹⁾	2x(120...300)	OZXB4K	OZXB6	1SCA022137R4920	3	3.03
OS/OSM315...400 ¹⁾	120...240	OZXB5K	OZXB7	1SCA022185R0040	3	1.00
OS/OSM315...400 ¹⁾	95...185	OSS400_L	OZXB8	1SCCA022744R1510	3	0.50
OS/OSM315...400 ¹⁾	95...240	OSS400_L	OZXB9	1SCA022750R3210	3	0.50
OS/OSM630...800	95...185	OSS800_L	OZXB3	1SCA022136R8100	3	1.30
OS/OSM630...800	2x(95...185)	OSS800_L	OZXB4	1SCA022137R2470	3	1.70
OS/OSM630...800	120...300	OSS800_L	OZXB5	1SCA022137R2470	3	2.30
OS/OSM630...800	2x(120...300)	OSS800_L	OZXB6	1SCA022137R4920	3	3.03
OS/OSM630...800	120...240	OSS800_L	OZXB7L	1SCA022185R7130	3	1.20
OS/OSM630...800	95...185	OSS800_L	OZXB8	1SCA022744R1510	3	0.50
OS/OSM630...800	95...240	OSS800_L	OZXB9	1SCA022750R3210	3	0.50

¹⁾ Suitable for OS315...400_BB_-types, for OS315...400_LR_-types suitable only with terminal angle OZXU14.

Accessories for manual and motorized switch fuses 32...1250 A

Ordering information for terminal clamp sets



OZXB8



OZXR95



OZXR185



OZXR240



OZXR300

Terminal clamp sets

Suitable for switches	Cable cross section [mm ²]	Suitable shroud	Type	Order number	Units/type [pcs]	Weight/unit [kg]
OZXR type Al/Cu connectors made of stainless steel						
OS/OSM1250	95...185	OTS1600_L	OZXB3	1SCA022136R8100	3	1.30
OS/OSM1250	2x(95...185)	OTS1600_L	OZXB4	1SCA022137R4760	3	1.70
OS/OSM1250	120...300	OTS1600_L	OZXB5	1SCA022137R2470	3	2.03
OS/OSM1250	2x(120...300)	OTS1600_L	OZXB6	1SCA022137R4920	3	3.03
OS/OSM1250	210...240	OTS1600_L	OZXB7L	1SCA022185R7130	3	1.20
OS/OSM1250	95...185	OTS1600_L	OZXB8	1SCA022744R1510	3	0.50
OS/OSM1250	95...240	OTS1600_L	OZXB9	1SCA022750R3210	3	0.50
OZXR type Al/Cu connectors made of stainless steel and copper²⁾						
OS100G...160G ¹⁾	6...70	OSS160G_L	OZXR70	1SCA115529R1001	3	0.15
OS100G...160G ¹⁾	25...95	OSS160G_L	OZXR95	1SCA115530R1001	3	0.21
OS200	25...95	OSS200_L	OZXR95	1SCA115530R1001	3	0.21
OS200	95...185	OSS200_L	OZXR185	1SCA115531R1001	3	0.45
OS200	2x(95...185)	-	OZXR2X185	1SCA115534R1001	3	0.66
OS250	95...185	OSS250_L	OZXR185	1SCA115531R1001	3	0.45
OS250	2x(95...185)	-	OZXR2X185	1SCA115534R1001	3	0.66
OS315...400	95...240	OSS400_L	OZXR240	1SCA115532R1001	3	0.42
OS315...400	2x(95...185)	-	OZXR2X185	1SCA115534R1001	3	0.66
OS315...400	185...300	-	OZXR300	1SCA115533R1001	3	0.87
OS630...800	2x(185...300)	OSS800_L	OZXR2X300	1SCA115535R1001	3	1.59
OZXP type Al/Cu connectors made of tin plated aluminium profile²⁾						
OS100G...160G ¹⁾	6...95	OSS160G_L	OZXP95	1SCA115539R1001	3	0.09
OS200	6...95	OSS200_L	OZXP95	1SCA115539R1001	3	0.09
OS200	16...120	OSS200_L	OZXP120	1SCA115540R1001	3	0.15
OS200	25...150	-	OZXP150	1SCA115541R1001	3	0.18
OS200	35...240	-	OZXP240	1SCA115542R1001	3	0.27
OS250	35...240	-	OZXP240	1SCA115542R1001	3	0.27
OS315...400	35...240	-	OZXP240	1SCA115542R1001	3	0.27
OS315...400	95...300	-	OZXP300	1SCA115543R1001	3	0.42
OS315...400	2x(70...240)	-	OZXP2X240	1SCA115544R101	3	1.38
OS630...800	2x(70...240)	OSS800_L	OZXP2X240	1SCA115544R1001	3	1.38

¹⁾ For _LR-types, suitable only with terminal angle OEZXU68.

²⁾ Suitable also for OS200...400_BB_ for OS200...400_LR_-types suitable only with terminal angle OEZXU14.

Accessories for manual operated switch fuses 32...1250 A

Ordering information for terminal lugs



Terminal lug kits fro Al- and Cu-cables for UL/CSA disconnect switches

One kit includes 6 pcs.

Suitable for switches	Cable size	Type	Tightening torque [lb.in/Nm]	Weight/unit [kg]	Weight/unit [lb]
OS100	AWG14-2/0	OZXA-24	120/13.6	0.21	0.45
OS200	AWG 4-300MCM	OZXA-200	275/31.1	0.04	0.09
OS400	AWG2-600MCM	OZXA-400	375/42.4	0.05	0.12
OS600...800	2 X AWG 2-600MCM	OZXA-800	500/56.5	0.21	0.45
OS1200	4 X AWG 2-600MCM	OZXA-1200	500/56.5	0.45	0.98

For ordering please consult us.

Technical data for terminal lugs

Description	
UL approval file	E60207
Temperature rating, °C	75
Wire tightening Type of tool	Allen (Hex) wrench
Lug mounting	Bolt & nut mounting
AWG (American Wire Gauge) wire class	B.C

Accessories for manual operated switch fuses 32...1250 A

Ordering information for conversion kits



OESAZW2

Conversion kits for front operated combination switches

Suitable for switches	Switches needed [pcs]	Shaft distance [mm]	Type	Order number	Units/type [pcs]	Weight/unit [kg]
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OTZW25

6 and 8-pole switch mechanism

Parallel attachment for connecting 3- and 4-pole switches. The switches work simultaneously.

6 and 8-pole switches, OS32G...400

The attachment levers are provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically.

OS32G...250	Two 3- or 4-pole	45...240mm, step distance 15mm	OESAZW2	1SCA022078R1600	1	0.37
OS315...400	Two 3- or 4-pole	60...440mm, step distance 20mm	OETLZW9	1SCA022061R3300	1	1.1



OTZW26

Change-over switch mechanism

Two switches connected with a mechanism operating into I-O-II positions.

OS32G...250	Two 3- or 4-pole	210...570mm, step distance 20mm	OTZW25	1SCA022778R6920	1	2.8
OS315...400	Two 3- or 4-pole	210...430mm, step distance 20mm	OETLZW11	1SCA022078R0030	1	3.0
OS315...400	Two 3- or 4-pole	210...610mm, step distance 20mm	OETLZW12	1SCA022078R0200	1	4.6



OETLZW14

Bypass switch mechanism

A combination of two switches in parallel with a third switch for change-over operation to bypass, for example, a breaker for maintenance. The bypass attachment can be used together with another combination attachment.

OS32G...250	Three 3- or 4-pole		OTZW26	1SCA022778R7060	1	3.3
	Between 1 and 2:	210...390mm, step distance 20mm				
	Between 1 and 3:	250...430mm, step distance 20mm				
OS315...800	Three 3- or 4-pole		OETLZW13	1SCA022078R0460	1	4.0
	Between 1 and 2:	210...570mm, step distance 20mm				
	Between 1 and 3:	250...610mm, step distance 20mm				

Mechanical interlock mechanism

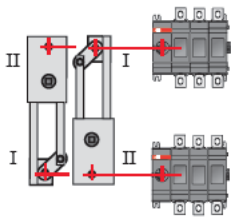
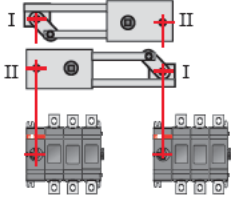
Prevents one switch from closing to ON -position, if the other is not in OFF - position.

OTZW/OETLZW-types: When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in the ON-position. (UPS-usage, make-before-break)

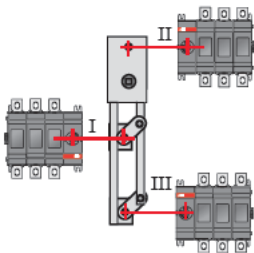
OS32G...250	Two 3- or 4-pole	190	OTZW10	1SCA022431R5280	1	0.40
OS315...800	Two 3- or 4-pole	250	OETLZW14	1SCA022077R3410	1	0.70
OS315...800	Two 3- or 4-pole	300	OETLZW3	1SCA022049R0380	1	0.80
OS315...1250	Two 3- or 4-pole	500	OETLZW15	1SCA022081R9340	1	1.24

Accessories for manual operated switch fuses 32...1250 A

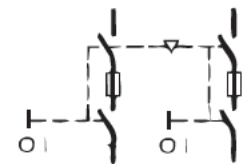
Ordering information for conversion kits



Change-over switches



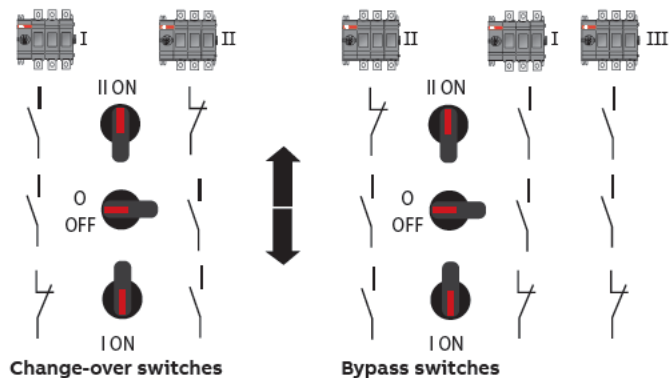
Change-over and bypass switches



Mechanical interlock

Shafts and handles for conversion kits

Conversion kit type	Shaft	To be ordered separately		Included in the conversion kit delivery	The standard handle or shaft of one of the combined switches can be used	
		Handle	Shaft		Shaft	Handle
6 and 8-pole switches						
OESAZW2	-	-	x (2 pcs)	OHB145J12	-	-
OETLZW9	-	-	-	-	x	x
Change-over switches						
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
OETLZW11	-	-	x (2 pcs)	OHB145J12E011	-	-
OETLZW12	-	-	x (2 pcs)	YASDA21	-	-
Bypass switches						
OTZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
OETLZW13	-	-	x (3 pcs)	YASDA 6	-	-
Mechanical interlock						
OTZW10	-	-	-	-	x	x
OETLZW14	-	-	-	-	x	x
OETLZW3	-	-	-	-	x	x
OETLZW15	-	-	-	-	x	x



Accessories for manual operated switch fuses 32...1250 A

Ordering information for cam attachment and interlocks



OSZT1A



OSZT2A



OETLZW5

Mechanism interlock kits and Electrical interlocks

OS32G...1250 switch fuses can be interlocked in the OFF position using padlocks and by using a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max 8 mm.

Note: The shaft must go through the interlock into the switch mechanism.

Suitable for switches	Type	Order number	Weight/unit [kg]
Interlocking in the OFF position			
OS32G...160G	OTZT1A	1SCA106522R1001	0.21
OS200 ... 250_	OSZT1A	1SCA106532R1001	0.32
OS315 ... 400_	OSZT2A	1SCA106534R1001	0.75
OS600 ...800_	OSZT3A	1SCA106535R1001	1.20
OS1200 ... 1250_	OSZT4A	1SCA106536R1001	2.00
Interlocking in the OFF & ON positions			
OS32G...160G	OTZT1L	1SCA106527R1001	0.21
OS200 ... 250_	OSZT1L	1SCA106538R1001	0.32
OS315 ... 400_	OSZT2L	1SCA106539R1001	0.75
OS600 ...800_	OSZT3L	1SCA106540R1001	1.20
OS1200 ... 1250_	OSZT4L	1SCA106541R1001	2.00

Cam attachment

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock. Lock, handle or shaft are not included. Mounting on OXP shaft working together with external OH door handle.

Suitable for switches	Type	Order code	Weight/unit [kg]
OS315...1250	OETLZW5	1SCA022052R3900	0.14

Accessories for manual operated switch fuses 32...1250 A

Ordering information for coils and mounting accessories



PDAL2-230AC50Hz



OSGZD1

Coils

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF position or both in the OFF and ON positions. The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON position and switches with L-type interlocks cannot be turned to the ON or OFF positions.

Suitable for switches	Type	Order number	Weight/ unit [kg]
AC coils			
24 VAC, 60 Hz	PDAL2/24AC60Hz	1SCA111350R1001	0.15
110 VAC, 50Hz	PDAL2/110AC50Hz	1SCA106543R1001	0.15
110 VAC, 60Hz	PDAL2/110AC60Hz	1SCA107100R1001	0.15
120 VAC, 60 Hz	PDAL2/120AC60Hz	1SCA111353R1001	0.15
208 VAC, 60Hz	PDAL2/208AC60Hz	1SCA107101R1001	0.15
230 VAC, 50Hz	PDAL2/230AC50Hz	1SCA107102R1001	0.15
240 VAC, 60 Hz	PDAL2/240AC60Hz	1SCA111356R1001	0.15
DC coils			
24 VDC	PDAL2/24DC	1SCA106542R1001	0.15
48 VDC	PDAL2/48DC	1SCA107103R1001	0.15
60 VDC	PDAL2/60DC	1SCA107104R1001	0.15
110 VDC	PDAL2/110DC	1SCA107105R1001	0.15
125 VDC	PDAL2/125DC	1SCA111338R1001	0.15
220 VDC	PDAL2/220DC	1SCA112503R1001	0.15

Technical data for the coil

Operating voltage		U=0.8...1.1 x Un	
Operating ambient temperature		-40°C.. 65°C	
Power consumption	with AC	6.5 W	
	with DC	9 VA	

Mounting accessories: DIN-rail mounting kit

For mounting a switch fuse into 35 mm DIN-rail

Suitable for switches	Type	Order number	Weight/ unit [kg]
OS32G...160G, 1 - 4 -pole	OSGZD1	1SCA115688R1001	0.20

Accessories for manual operated switch fuses 32...1250 A

Ordering information for spare part kits

Spare part kits

Suitable for switches	Type	Order number	Units/ type [pcs]	Weight/ unit [kg]
Fuse cover, window and label set				
OS32GB-OS63GB/ OS32GD-OS63GD/OS50GF	OSFC1/B10	1SCA149864R1001	10	0,100
OS60GJ	OSFC2/B10	1SCA149872R1001	10	0,110
OS125GD-OS160GD/OS125GF	OSFC3/B10	1SCA149873R1001	10	0,200
OS100GB-OS200GB	OSFC4/B10	1SCA149874R1001	10	0,180
OS100GJ	OSFC5/B10	1SCA149875R1001	10	0,180
OS200D/OS200B	OSFC6/B10	1SCA149876R1001	10	0,300
OS200J	OSFC7/B10	1SCA149877R1001	10	0,330
OS250D/OS250B	OSFC8/B10	1SCA149878R1001	10	0,400
OS400D	OSFC9/B4	1SCA149879R1001	4	0,200
OS315B-OS400B/OS400J	OSFC10/B4	1SCA149865R1001	4	0,220
OS630D-OS800D/OS630B-OS800B/OS600J-OS800L	OSFC11	1SCA149866R1001	1	0,100
OS1250D/OS1250B/OS1200L	OSFC12	1SCA149867R1001	1	0,330
Fuse cover and window				
OS40FD	OSFC13	1SCA149868R1001	1	0,180
Fuse cover				
OS20FB/OS32FB	OSFC14	1SCA149869R1001	1	0,858
OS25FF/OS32FF	OSFC15	1SCA149870R1001	1	0,077
OS30FACC/OS30FAJ	OSFC16	1SCA149871R1001	1	0,073
Mechanism cover and label set				
OS50GF/OS60GJ-OS100GJ/OS32GB-OS160GB/OS32GD-OS160GD	OSMC1/B4	1SCA149880R1001	4	0,040
OS200D-250D/OS200B-OS250B/OS200J	OSMC2/B4	1SCA149881R1001	4	0,045
OS315B-OS400B/OS400D/OS400J	OSMC3	1SCA149882R1001	1	0,020
OS630B-OS800B/OS630D-OS800D/OS600J-OS800J	OSMC4	1SCA149883R1001	1	0,050
OS1250D/OS1250B/OS1200L	OSMC5	1SCA149884R1001	1	0,070
Shaft locking ring and screw				
OS32GD-OS250D/OS32GB-OS250B/OS50GF-OS125GF/OS60GJ-OS200J	OTZS2/B10	1SCA126043R1001	10	0,001
Lock spring and screw				
OS400D-OS1250D/OS315B-OS1250B/OS400J-OS1200L	OZX1	1SCA105708R1001	10	0,090

