

SafeLink 2

FAQ's – Compatibility with SD and SafeLink 1

For over 30 years ABB in New Zealand has developed proven secondary distribution switchgear solutions. In 2012 ABB builds on the success of earlier products and with a view to the future introduces SafeLink 2.

This guide is intended to provide answers to questions around the compatibility of existing SD and SafeLink 1 products.



Functionality		SD	SafeLink 1 & 2			
2 ring -1 fused		SDAF3	CFC			
3 ring		SD3	CCC			
3 ring -1 fused		SDAF3+SD	CFCC			
2 ring -2 fused		SDAF3+SDAF	CFCF			
4 ring		SD3+SD	CCCC			
1 fused – 1 bus		SDAF	DF			
1 ring		SD	DC			
Operational safety						
Interlocked cable box		No	Yes			
Voltage indication (IEC)		No	Yes			
Active mimic panel		No	Yes			
Arc fault tested		No	Yes			
Automation & accessories						
Motor operation		No	Yes			
Auxiliary switches / shunt trip		Limited	Yes			
Fault indicator range		Limited	Yes			
Retrofit kits for all above		No	Yes			
Test & design standards		Superseded	Latest IEC			
Bushing orientation and unit dimensions Note: 1) Dimensions exclude opening clearances	Height (Short/Extra):	 Front	SDAF3 1030 mm / 1282 mm	 Front	CFC	CFC (Incl. enclosure)
	Width:		811 mm		1350 mm	1380 mm
	Depth:			646 mm		705 mm
					700 mm	838 mm
Cable connections		Short height stand	Extra height stand	Standard height stand		
Ground level to centre of bushing hole		433 mm	687 mm	643 mm		
SD to SafeLink replacement considerations		Replacing an SD short height stand unit with a SafeLink: <ul style="list-style-type: none"> SD bushing hole centre is 210mm lower than SafeLink Trifurcate cable inside trench and connect three single core cables Replacing an SD extra height stand unit with a SafeLink: <ul style="list-style-type: none"> SD bushing hole centre is 44mm higher than SafeLink Cable lugs can be cut off and new lugs fitted to shorten the existing cable or cable can be pulled out completely, trifurcate inside the trench and connect three single core cable. 				
Note: 1) SafeLink terminations use push-on boots. 2) Mounting points differ between SD and SafeLink, an adapter plate may be used.						

SafeLink 2 compatibility with SafeLink 1FAQ's

1. Can the SafeLink 1 be updated with automation?	A limited number of options are available. Please contact your ABB representative to discuss your requirements.
2. Are the SafeLink products extendable?	Yes, configurations of SafeLink 2 are available that will enable SafeLink 2 units to be extended by an interconnecting cable.
3. Has the SafeLink 2 the same interlocking and operation as SafeLink 1?	Yes, interlocking protection measures and operation are the same.
4. Has the SafeLink 2 got the same footprint as the SafeLink 1?	Yes, with and without the enclosure.
5. Is the SafeLink 2 type tested?	Yes, it is tested to IEC 62271-1, IEC 62271-102, IEC 62271-105, IEC 62271-200, IEC 60265-1
6. Has the SafeLink 2 got an arc fault tested tank and cable box?	Yes, 20 kA for 1 s
7. Can a SafeLink 2 cable box be stripped down?	Yes, like the previous standard cable box.
8. Is access to the gas gauge and gas top up valve on SafeLink 2 possible when the unit is live?	Yes, it has a separate gauge compartment. There is no need to open the fuse door to access the gauge, top up with gas, or to perform low voltage diagnosis.
9. Can the standard SafeLink 2 be upgraded to a fully automated system?	Yes, it has a unique modular plug 'n' play system.
10. Can I order SafeLink 2 with remote LED indicators on the enclosure?	Yes
11. How do I differentiate between SafeLink 1 and SafeLink 2?	The product is labeled SafeLink 2, the colour is a lighter grey, it has individual mimics, and a separate gas gauge compartment.
12. Can the mimic panel on SafeLink 2 be removed without removing the outdoor enclosure?	Yes, access from the front is possible.
13. Can the VPIS be replaced without removing the mimic?	Yes, access from the front is possible.
14. Can a motor drive be fitted when a SafeLink unit is live?	No, the unit must be isolated from the main power.
15. What is the lead time for SafeLink 2?	The lead time for SafeLink 2 should be less than 4 weeks.

SafeLink 2 compatibility with SD FAQ's

1. Why is the SD being discontinued?	Over the last 5 years the majority of customers have moved away from oil insulated to gas insulated switchgear for reasons of health and safety, arc vented design, lower maintenance and automation compatibility.									
2. What is the last date I can order SD units?	We would like to work with you to settle on a final date.									
3. What are my replacement product options for SD?	SafeLink introduced in 2000 offers enhanced safety, performance and advanced automation features. See the SD / SafeLink table on page 1.									
4. What is the price difference between an SD and SafeLink 2?	<table border="1"> <thead> <tr> <th></th> <th>SD (Excl. oil, incl. cover)</th> <th>SafeLink 2 (Incl. enclosure)</th> </tr> </thead> <tbody> <tr> <td>3 – way (SDF3 vs. SL 2 CFC)</td> <td>\$12,600</td> <td>\$14,022</td> </tr> <tr> <td>4 – way (SDF3+SDF vs. SL 2 CFCF)</td> <td>\$20,348</td> <td>\$19,750</td> </tr> </tbody> </table>		SD (Excl. oil, incl. cover)	SafeLink 2 (Incl. enclosure)	3 – way (SDF3 vs. SL 2 CFC)	\$12,600	\$14,022	4 – way (SDF3+SDF vs. SL 2 CFCF)	\$20,348	\$19,750
	SD (Excl. oil, incl. cover)	SafeLink 2 (Incl. enclosure)								
3 – way (SDF3 vs. SL 2 CFC)	\$12,600	\$14,022								
4 – way (SDF3+SDF vs. SL 2 CFCF)	\$20,348	\$19,750								
5. Is it easy to replace an SD product with a SafeLink product?	SafeLink offers the advantage of a smaller footprint. This is achieved by the orientation of the bushings that are perpendicular to the SD arrangement so cable trifurcation may be required.									
6. How long will ABB support SD products after they are discontinued?	ABB is committed to the support of all its products for 10 years from the date of discontinuance. For more information visit www.abb.com/mediumvoltage and → "Service" → "Policies and Services" under Life Cycle Management.									
7. Will SDM (metering) units still be available?	SDM units will no longer be available.									
8. Will ABB assist with replacement solutions for SD?	Yes, we are able to assist with solutions on a case by case basis.									
9. Can a SafeLink unit replace an extensible SD unit?	Yes, if it is a freestanding unit. If it is part of a bank of units then the option is to replace the complete bank with SafeLink units and retain the old SD units as spares for future SD replacements.									

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