

Portable cable test and fault location system



Surgeflex 40

- Easiest operation by the Teleflex SX
- High surge energy
- All HV-prelocation methods integrated
- Maximum Safety

Surgeflex 40

The SFX 40 is a portable, trolley mounted, multi-functional system for testing, prelocation, pinpointing and converting cable faults in low and medium voltage networks.

The system is either controlled directly via the connected Teleflex SX reflectometer or via the integrated control panel.

All functions of the system can be easily performed using the rotary encoder. The system supports easy and clear handling, even for inexperienced users.

At the same time, the integrated safety system and the separation transformer guarantee a maximum of safety.



Technical data

Display	¼ VGA
Insulation test	Voltages 1,000 V and 5,000 V ranges 1 kΩ, 1 MΩ, 100 MΩ
DC testing	0 ... 40 kV DC
Leakage current	0 ... 1 / 10 / 100 mA automatic range setting
Breakdown detection	0 ... 40 kV
Burning	0 ... 8 kV, 750 mA; 0 ... 20 kV, 0.1 A
Upper surge voltages	0 ... 12.5 / 25 kV or 0 ... 16 / 32 kV
Lower surge voltages (optional)	0 ... 4 kV; 0 ... 8 kV 0 ... 3 kV; 0 ... 6 kV
Surge energy	1,000 J in each area (optionally 2,000 J for vehicle installation)
Surge sequence	3 ... 10 sec. and single pulse
Sheath fault location	0 ... 5 kV and 0 ... 10 kV
Cycle intervals	DC; 1:3 ; 1:4 ; 1:6 (sec.)
HV prelocation (with optional teleflex)	ARM, ICE current decoupling, Decay voltage coupling
Operating temperature	-10 °C ... + 50 °C
Power supply	230 V; 50 / 60 Hz (110 V optional)
Power consumption	1.7 kVA max.
Dimensions (L x W x H)	520 x 430 x 1050 mm
Weight	140 kg

Modes

- Insulation test up to 5,000 V
- DC test up to 40 kV with ramp function, automatic switch-off in case of breakdown and display of break down voltage
- ARM prelocation procedure method, ICE impulse current method and Decay voltage decoupling
- Burning with adjustable burn up to 750 mA
- High surge energy for acoustic pinpointing
- Flexible adaptable voltage levels for MV and LV levels
- Sheath fault location with step voltage method
- Extensive safety circuits for monitoring of Earth (FΩ), Step voltage (FU), Emergency OFF, temperature etc.

Special accessories

- Surge wave receiver digiPHONE+
- Earth fault locator ESG NT
- External Safety unit with Emergency OFF, signalling lights according to VDE 0104 / DIN EN 50191

External Safety unit with
connection leads 5 m

Order number:
820003206



External Safety unit with operating
functions and connection leads 5 m

Order number:
2006112





Surgeflex 40 Portable

Order information

Model		SFX40.....	-W	-X	-Y	-Z
Portable system with trolley 32 kV		SFX40-32P	1	1	1	1
Portable system with trolley 25 kV		SFX40-25P	1	1	1	1
HV surge voltage selection	12.5 / 25 kV oder 16 / 32 kV; 1000 J		-1	1	1	1
	12.5 / 25 kV oder 16 / 32 kV; 2000 J <i>only with G</i>		-2	1	1	1
LV surge Voltage selection	4 kV; 1000 J			-A	1	1
	8 kV; 1000 J			-B	1	1
	4 / 8 kV; 2000 J			-C	1	1
	3 kV; 1000 J			-D	1	1
	6 kV; 1000 J			-E	1	1
	3 / 6 kV; 2000 J			-F	1	1
	No LV			-G	1	1
	3 kV; 2000 J			-H	1	1
	6 kV; 2000 J			-I	1	1
	4 kV; 2000 J			-J	1	1
	8 kV; 2000 J			-K	1	1
	4 / 8 kV; 1000 J			-L	1	1
	3 / 6 kV; 1000 J			-M	1	1
TDR and control selection	Teleflex SX, complete control by Teleflex SX				-S	1
	Teleflex T 3060				-6	1
	No TDR				-N	1
	No TDR - T 3090 preparation				-9	1
Version outfit	Normal: with MC 10 and 230 V					-N
	US version: with MC 14, hook lugs, 120 V					-U

Important note:

Per definition, a "portable" defines a system on trolley with all options inside the main enclosure. Adding any of the greyed out options requires an external housing and adds substantial weight, which is not portable anymore. In this case we recommend to refer to the SFX 40 M van mount versions.

Included accessories -N Version:

Portable units equipped with VL SPG 40-P cable set for SPG 40 portable 25 m HV test leads with MC 10 connector at the ends and separation transformer connection clamps.

Included accessories -U Version::

MC 14 male at HV core, hook lug at HV shield and ground, both with hotline clamp, English manual, mains lead 7 ft / 2,5 m; 75 ft / 25 m HV and ground cable. Each on portable cable reel. HV end with 14 mm male MC, HV return and all ground ends fitted with hotstick clamps.

