



SFX 32

- Safe and fast fault location with latest TDR technology
- High surge energy for effective pinpoint locating
- Various fault location methods included

Description

The SFX 32 is a mobile system for testing and fault locating on low and medium voltage cables. The powerful ARM (Arc Reflection Method) is used for prelocation of high resistance faults up to 32 kV. Conditioning faults - if necessary - is possible by short term burning in all voltage levels. Low resistance faults can be located with only the TDR Teleflex SX and without having to use high voltage methods.

The Teleflex SX offers convenient operator support with online help and one-button-operation. It automatically shows the far end of cable and fault distance in the ARM-Mode.

Even inexperienced users can easily locate faults with the Teleflex SX. The operator is guided through the fault locating process.

1750 Joules of surge energy provide the necessary power for accurately pinpointing cable faults with the acoustic method.

Big wheels make the unit suitable for easy operation in the field.

Connecting cables for earthing, mains, and HV are conveniently accessible at the rear of the unit.

SPECIFICATIONS

Teleflex SX

TDR	20 m ... 160 km @ $v/2 = 80 \text{ m}/\mu\text{s}$
Transienten	20 m ... 160 km
Pulse width	20 ns ... 5 μs
Sampling rate	up to 400 MHz
Display	10.4" color TFT XGA 1024x768, capacitive Touchscreen
V/2	10 ... 149.9 m/ μs
Modes	Symmetrical/asymmetrical reflection measurement Difference measurement/ comparison All ARM Arc Reflection methods, ARM Slide, Pro Range, All ICE impulse current decoupling methods DECAY Travelling wave method IFL Intermittent Fault Location Arc reflection burning
Memory	4 GB
Interface	Ethernet, USB, BNC, CAN (LON optional)
Impedance matching	8 Ω ... 500 Ω , adjustable
Operating temperature	-10 °C ... + 50 °C
Supply	NiMH-Battery, 110 - 230 V; 50/60 Hz, 12 V DC
Dimensions (W x H x D)	362 x 195 x 306 mm
Weight	6 kg

The Teleflex SX is available as a portable, battery operated stand-alone version or can be integrated in any measuring system with 19" rack mounting.

HV Module SFX 32

Testing	0 ... 32 kV DC
Surge	0 ... 8 kV; 1750 J (3500 J Optional) 0 ... 16 kV; 1750 J (3500 J Optional) 0 ... 32 kV; 1750 J (3500 J Optional) 0 ... 4 kV, 1200 J (Option)
Surge rate	3 ... 10 s, Single pulse
Burning	0 ... 32 kV; 160 mA
Sheath fault locating	0 ... 5 kV; 160 mA

Technical data of system

Connecting cable	6 m (standard)
Mains supply	230 V; 50/60 Hz, 2 kVA (110 V optional)
Dimensions (W x H x D)	800 x 1280 x 800 mm
Weight	Approx. 140 kg

ORDERING INFORMATION

Product	Order Code
SFX 32; 0 ... 8 / 16 / 32 kV	813372
Teleflex SX	
Mounting frame on wheels	
Operating manual	
Set of connecting cables	

Product	Order Code
Optional accessories	
Surge extension to 3500 J (only for vehicle installation)	820000317
4 kV surging with 1200 J	820021358
Surge wave receiver DigiPHONE+, complete	118303976
Pinpointing receiver DigiPHONE+, complete	128310579
Earth fault location unit complete	128308786