

SEFELEC 64-SC EXTERNAL SCANNER

Data Sheet

HIGH-VOLTAGE & HIGH-CURRENT EXTERNAL SCANNER

GENERAL SPECIFICATIONS

Mains Power Supply	100 ... 240 V AC $\pm 10\%$, 50 to 60 Hz / single-phase
Mains Protection	Dual time-delay fuse type T10AH 250V
Input Power	500 VA max.
Temperature Range	Storage: -10°C to $+60^{\circ}\text{C}$ Operation: 0°C to $+45^{\circ}\text{C}$ Specifications guaranteed after a 30-minute warm-up, relative humidity $< 50\%$ and temperature between 15°C and 35°C
Altitude	Up to 2,000 m
Relative Humidity / Acoustic Pressure	80% max. at 31°C / 80 dBA max. at 1 m
Dimensions	- Height: 131 mm - Width: 440 mm - Depth: 455 mm
Weight	- Chassis: 12 kg - HV module: 1.2 kg - HC module: 0.6 kg

TESTS TYPES PERFORMED

Continuity	0 to 1 Ω , < 32 A AC max.
Insulation Resistance	From 200 G Ω at 1 kVDC
Hipot	5 kVAC, 500 VA and 6 kVDC



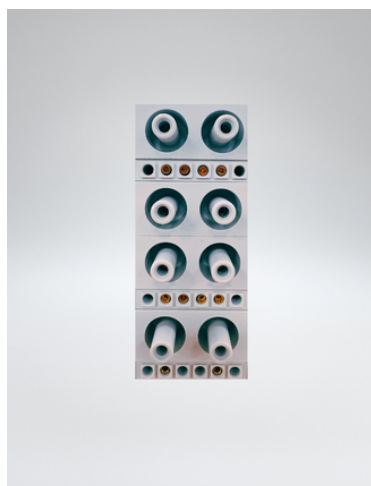
ADVANTAGES OF THE 64-SC SCANNER

- ✔ **Automated testing:** Safety, Quality and Traceability
- ✔ **Accuracy and speed:** up to 512 test points
- ✔ **Modular & scalable:** rack extensions supported
- ✔ **Compact:** up to 8 separate modules of 8 channels per rack
- ✔ **Switching module selection:**
 - Automatic detection of channels and output connectors
 - Independent channels, each connectable to hot/cold point or isolated
- ✔ **Plug & Play solution:**
 - Simple DUT connection and intuitive programming
 - Test visualization via the 7" TFT touchscreen of the associated 5X tester
 - Embedded DSP for increased test speed
- ✔ **Programmable and controllable:** directly from a SEFELEC 5X tester or via WINPASS MX software
- ✔ **Compliance:** Test safety according to EN 50191 and IEC 61010-2-034 (specific safety standards for insulation testers and dielectric strength test equipment)



SWITCHING MODULES

SWITCHING FUNCTION – HIPOT & INSULATION



SEFM-8EHV ou SEFM-8EHVHO

Channel Organization	Hot bus (high voltage): 1 Normally Open (NO) relay Cold bus (earth): 1 Normally Closed (NC) relay
Dielectric Tests	Max AC voltage: 5,000 VAC (50/60 Hz) Max DC voltage: 6,000 VDC, positive pole grounded Switching current: 2 A AC or DC (voltage-free) Leakage current: < 100 µA × (Test Voltage / 5,000)
Insulation Tests	Accuracy: - SEFM-8EHV for $R < 1 \text{ G}\Omega \leq (1.5\% + (2\% \times \text{number of modules}) + 1 \text{ digit})$ - SEFM-8EHVHO for $R < 200 \text{ G}\Omega \leq (1.5\% + 1 \text{ digit})$ Guard potential: max. 1,000 VDC
Protection Resistor	120 $\Omega \pm 5\%$ on common hot point and cable ends
Switching Time	Single channel close: 5 ms typical All channels close: 20 ms max.
Relay Coil	Voltage: 24 VDC nominal Resistance: 1,000 $\Omega \pm 10\%$
Connection	ODU Mac Blue Line 8-channel high-voltage connector
Connector Presence Detection	If the male connector is not connected, relays cannot be controlled
Mechanical Lifetime (no load)	> 1 × 10 ⁶

SWITCHING FUNCTION - HIGH-CURRENT / LOW-VOLTAGE

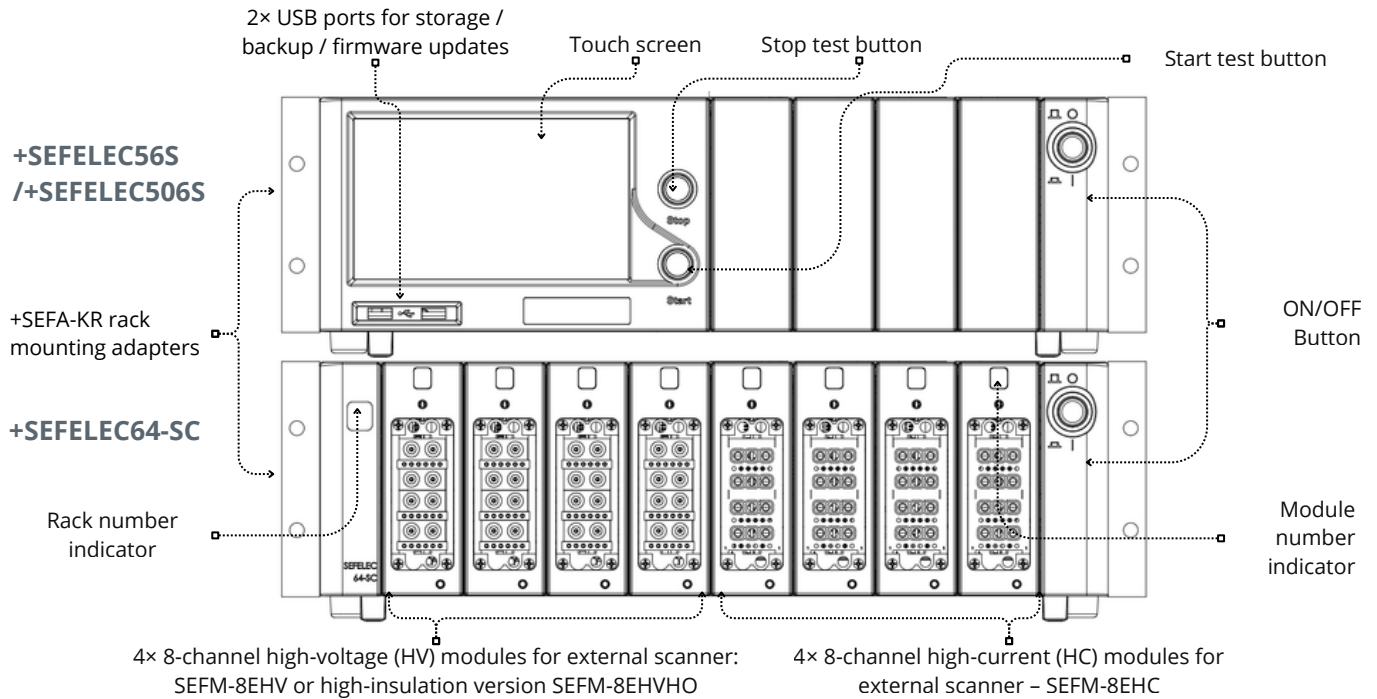


SEFM-8EHC

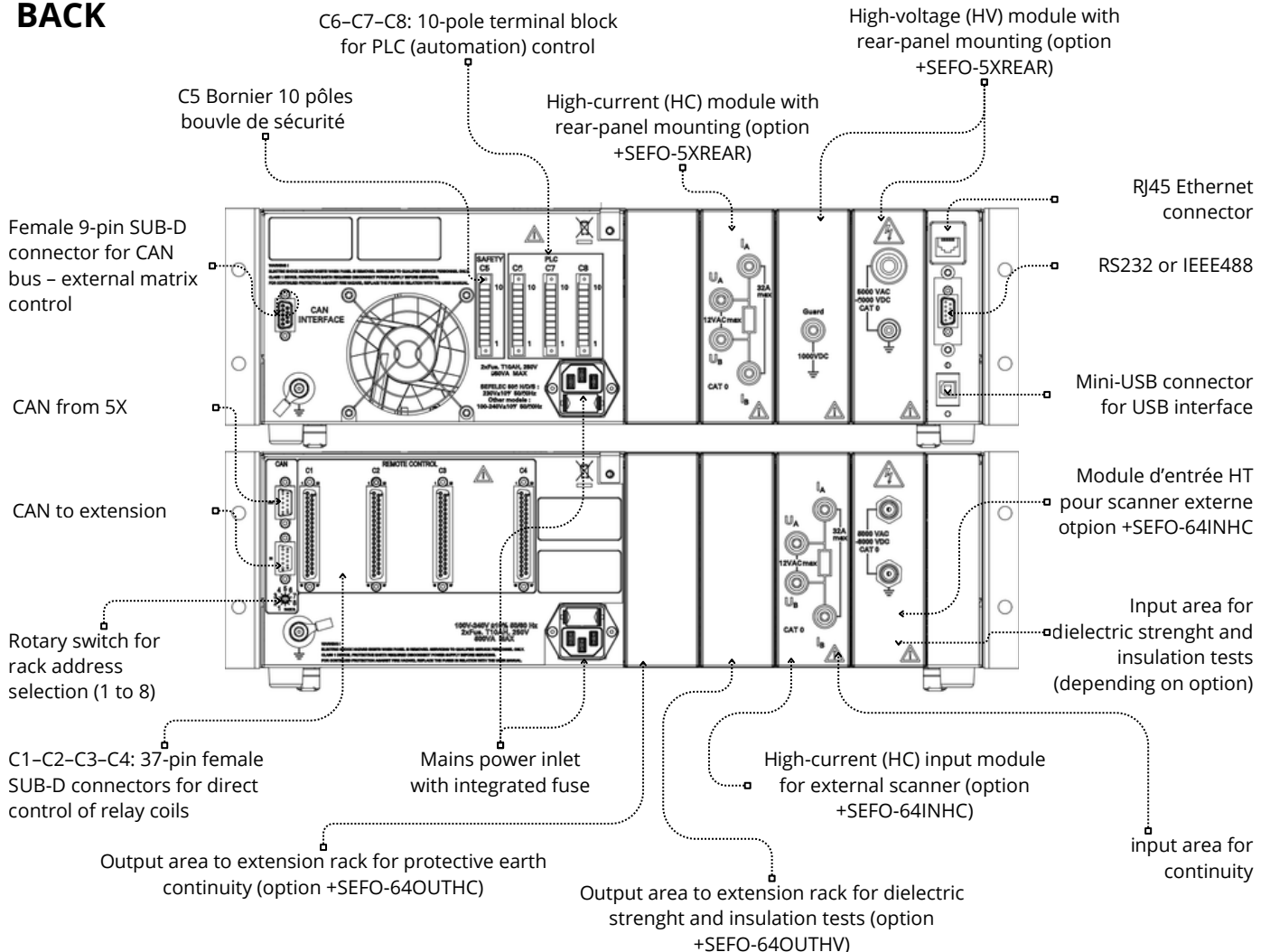
Channel Organization	Current bus: one Normally Open (NO) relay Voltage bus: one Normally Open (NO) relay
Current Switching	
Max voltage	30 VAC
Max switching current (voltage-free)	32A AC or DC
Contact resistance	< 10 m Ω
Relay Coil	24 VDC nominal
Coil resistance	480 $\Omega \pm 10\%$
Switching Time	Fermeture 1 voie : 5 ms typique Fermeture ensemble des voies : 20 ms max.
Mechanical lifetime (no load)	> 3 × 10 ⁴
Voltage Switching	
Max voltage	30VAC
Max switching current (voltage-free)	2A AC or DC
Contact resistance	< 50m Ω
Relay Coil	24 VDC nominal
Coil resistance	2880 $\Omega \pm 10\%$
Switching Time	Single channel close: 5 ms typical All channels close: 20 ms max.
Mechanical lifetime (no load)	> 5 × 10 ⁵
Connections	ODU Mac Blue Line connectors: 8 high-current channels 8 low-level channels (voltage measurement)
2-wire mode	8 channels
4-wire mode	4 channels
Connector Presence Detection	If the male connector is not connected, relays cannot be controlled

DESIGN

FRONT



BACK





CONFIGURATE YOUR EXTERNAL SCANNER SEFELEC 64-SC

ELEMENTS SELECTION

BASE RACKS	SEFELEC 64-SC	Base rack, max. 64 channels (main or extension)
	SEFELEC 64-SCPLC	Base rack, max. 64 channels with direct relay control (PLC I/O)
SWITCHING MODULES	SEFM-8EHV	8-channel Dielectric / Insulation module
	SEFM-8EHVHO	8-channel High-Insulation Dielectric module
	SEFM-8EHC	8-channel Protective Earth Continuity module
INPUT / OUTPUT MODULES	SEFO-64INHV	Dielectric & Insulation input
	SEFO-64INHV10	Insulation input (SEFELEC 1000-M)
	SEFO-64INHC	Earth continuity input
	SEFO-64INHVAUX	Dielectric/Insulation input for other generators
	SEFO-64OUTHV	Dielectric/Insulation output to extension rack
	SEFO-64OUTHVC	Earth continuity output to extension rack
CABLES	SEFA-SCH...	Cable type references available upon request 4-channel or 8-channel Function: Dielectric withstand / Insulation or Protective Earth continuity Available lengths: 2 m or 5 m

OPTION

WINPASS MX



Control and supervision software with automatic test report generation

ACCESSORIES

SEFA-KR

19" rack mounting adapters for SEFELEC range

Discover

More informations on
www.sefelec.com



**Automatic Cable Testers
SYNOR 5000**

- 8 to 140,000 test points
- Continuity (2- and 4-wire) up to 10 A
- Insulation up to 5,000 VDC
- Dielectric strength up to 4,000 VAC / 5,500 VDC
- Cabinet or compact enclosure, fixed or mobile



**Measurement Device
SEFELEC 5X**

- Dielectric strength: 5 kVAC / 6 kVDC (50 or 500 VA)
- Insulation measurement: up to 1,000 VDC, 2 TΩ
- Earth continuity: 32 A or 50 A AC