# **Product datasheet**

Specifications





# fiber optic interface ACE937 for Sepam series 20, 40, 60, 80

59644



#### Main

Range Of Product	Sepam series 48	
	Sepam series 60	
	Sepam series 20 Sepam series 40	
	Sepam series 80 NPP	
Device Short Name	ACE937	
Optic Fiber Type	Graded-index multimode silica wavelength: 820 nm connector(s): ST (BFOC bayonet fiber optic connector)	

## Complementary

Communication Port Protocol	Modbus RTU network: E-LAN interface: fiber optic ST - star Modbus RTU network: S-LAN interface: fiber optic ST - star
Local Signalling	LED for link activity (front face)
Mounting Mode	Fixed
Mounting Support	Symmetrical DIN rail
Height	88 mm
Width	72 mm
Depth	30 mm
Net Weight	0.1 kg
Mechanical Robustness	Earthquakes in operation (level: 2) : 1 Gn (vertical axes) conforming to IEC 60255-21-3 Earthquakes in operation (level: 2) : 2 Gn (horizontal axes) conforming to IEC 60255-21-3 Jolts de-energized (level: 2) : 20 Gn/16 ms conforming to IEC 60255-21-2 Shocks de-energized (level: 2) : 30 Gn/11 ms conforming to IEC 60255-21-2 Shocks in operation (level: 2) : 10 Gn/11 ms conforming to IEC 60255-21-2 Vibrations de-energized (level: 2) : 2 Gn, 10 Hz150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: 2) : 1 Gn, 10 Hz150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: Fc) : 2 Hz13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6
Optic Fiber Length	1800 m diameter: 62.5/125 μm numerical aperture: 0.275 attenuation: 3.2 dB optical power (dBm) 9.4 2600 m diameter: 200 μm numerical aperture: 0.37 attenuation: 6 dB optical power (dBm) 19.2 2800 m diameter: 100/140 μm numerical aperture: 0.3 attenuation: 4 dB optical power (dBm) 14.9 700 m diameter: 50/125 μm numerical aperture: 0.2 attenuation: 2.7 dB optical power (dBm) 5.6

## Environment

Electromagnetic Compatibility	1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV MC and MD, conforming to ANSI C37.90.1		
	MC and MD, conforming to ANSI C37.90.1 1 MHz damped oscillating wave: (immunity tests-conducted disturbances), III, 2.5 kV MC, 1 kV MD, conforming to IEC 60255-22-1		
	100 kHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV MC, 1 kV MD, conforming to IEC 61000-4-12		
	Conducted disturbance emission: (emission tests), conforming to IEC 60255-25 Conducted disturbance emission: (emission tests), B, conforming to EN 55022 Disturbing field emission: (emission tests), conforming to IEC 60255-25		
	Disturbing field emission: (emission tests), A, conforming to EN 55022 Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 4 kV contact, conforming to ANSI C37.90.3		
	<ul> <li>Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 6 kV contact, conforming to IEC 60255-22-2</li> <li>Fast transient bursts: (immunity tests-conducted disturbances), 4kV, 2.5 kHz, conforming to ANSI C37.90.1</li> <li>Fast transient bursts: (immunity tests-conducted disturbances), A or B, 4kV, 2.5 kHz/ 2 kV, 5 kHz, conforming to IEC 60255-22-4</li> <li>Fast transient bursts: (immunity tests-conducted disturbances), IV, 4kV, 2.5 kHz, conforming to IEC 61000-4-4</li> <li>Immunity to conducted RF disturbances: (immunity tests-conducted disturbances), 10 V, conforming to IEC 60255-22-6</li> <li>Immunity to magnetic fields at network frequency: (immunity tests-radiated disturbances), 10 V/m, 80 MHz</li> <li>1 GHz, conforming to IEC 60255-22-3</li> <li>Immunity to radiated fields: (immunity tests-radiated disturbances), 35 V/m, 25 MHz</li> <li>1 GHz, conforming to IC 37.90.2 (1995)</li> <li>Immunity to radiated fields: (immunity tests-radiated disturbances), 36 V/m, 80</li> </ul>		
			MHz2 GHz, conforming to IEC 61000-4-3 Surges: (immunity tests-conducted disturbances), III, 2 kV MC, 1 kV MD, conforming
			to IEC 61000-4-5 Voltage interruptions: (immunity tests-conducted disturbances), 100 %, 10 ms, conforming to IEC 60255-11
		Climatic Withstand	Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm S02, 0.02 ppm NO2, 0.01 ppm Cl2 conforming to IEC 60068-2-60 Continuous exposure to damp heat (in operation) : Ca: 10 days, 93 % RH, 40 °C (104 °F) conforming to IEC 60068-2-3
			Continuous exposure to damp heat (in storage) : Ca: 56 days, 93 % RH, 40 °C (104 °F) conforming to IEC 60068-2-3
			Exposure to cold (in operation) : Ab: - 25 °C (- 13 °F) conforming to IEC 60068-2-1 Exposure to cold (in storage) : Ab: - 25 °C (- 13 °F) conforming to IEC 60068-2-1 Exposure to dry heat (in operation) : Bb: 70 °C (158 °F) conforming to IEC 60068-2-2 Exposure to dry heat (in storage) : Bb: 70 °C (158 °F) conforming to IEC 60068-2-2
			Influence of corrosion/gaz test 2 (in operation) : C: 21 days, 75 % RH, 25 °C (- 13 °F), 0.5 ppm H2S, 1 ppm S02 conforming to IEC 60068-2-60
	Salt mist (in operation) : Kb/2 conforming to IEC 60068-2-52 Temperature variation with specified variation rate (in operation) : Nb: - 25 °C to 70 °C (- 13 °F to 158 °F) 5 °C/min (41 °F/min) conforming to IEC 60068-2-14		
Amhient Air Temperature For	25 70 °C		

Ambient Air Temperature For -25...70 °C Operation

# **Packing Units**

J	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.0 cm
Package 1 Width	18.5 cm
Package 1 Length	12.0 cm
Package 1 Weight	125.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	8
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.455 kg

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

#### Well-being performance

Mercury Free

Rohs Exemption Information Yes

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information