

LiteSUN Plus - Technical specifications

LiteSUN Plus and LiteSUN Plus AMPLI - analyser

Protection rate	IP55
Operating range	0-300m* (max 30dB)
Optical power budget	30dB
Power Meter	Optional**
Alarm relay output	5A/240 Vdc NC or optical output (optional**)
Power (DC)	12V-24V $\pm$ 10%
Operating temperature***	-20° +70° C
Humidity	from 5 to 90%
Consumption at 12VDC	200mA
Max. Power	3W
Weight and dimensions in IP55 casing	670g ; 190x255x90 mm
Optical connector	F-SMA
Immunity to EMI/RFI	EMC 2004/108/CE FCC Class B: verification level part 15
Anti-tampering sensor	mechanic

LiteWIRE Simplex - Plastic optical fiber

Plastic fiber	SI-POF (980/1000)
Numerical aperture (NA)	0,46 $\pm$ 0,025
Max. attenuation @525nm/@650nm	100dB/db/km / 150dB/km
Bandwidth	30MHz at 100m
Diameter of bare/jacketed plastic fiber	1mm/2,2mm $\pm$ 0,1mm
Min. bending radius	20mm at 25° C
Jacket	PE-HD - Anti UV - LSZH (Low Smoke Zero Halogen)** with meter marking
Weight	6kg/km
Max polling force	65N at 25° C
Operating temperature***	-40° C +85° C
Immunity to EMI/RFI	Total

* This distance can be reached if the installation is carried out correctly (attenuation of the fiber lower than 0.1dBm at 525nm). Bends, passages on edges, misplaced or over-tightened cable ties and mechanical stresses on the fiber can increase the attenuation of the optical signal, reducing, even considerably, the maximum operating range, even preventing the system from working correctly.

** The optical alarm relay output and the built-in power meter are available on request. The optical alarm relay output must be connected to plastic fiber, which will reach a receiver (item no. LCUT300S011S) converting the optical signal into an electrical signal. The power budget of the receiver is-30dB, which equals to about 300m of plastic fiber LiteWIRE, and it can be amplified by using additional devices of the same type(item no. LCUT300S011S) setting them as amplifiers.

*** During installation at low temperatures, the fiber tends to be more rigid and less elastic, so more care is required.