AS 100

Optical Sensor (50 / 10) V DC

Short description

The AS 100 sensor is a small analog probe used for nonreactive transmissions of binary signals out of the device under test during interference. It is positioned directly on the PC board of the device under test and is powered by the device under test. In the sensor, the analog signal is transformed via a serial ADC into an optical signal and is transmitted via a fibre optical cable to the receiver/ oscilloscope.

Signal transmissions via a fibre optic cable do not change the testing environment of the device under test while the signals received allow the device under test`s concrete functions to be controlled, meaning disturbed signals can be immediatly detected.

Technical parameters

Bandwidth	DC ... 25 kHz
Sampling rate	125 ksps
Measuring range	0 V ... 50 V / 0 V ... 10 V DC (switchable)
Input resistance	100 kΩ
Radiated immunity	> 200 V/m
Supply voltage	3 V ... 16 V
Current input	≈ 3 mA
Sizes (L x W x H)	(34 x 10 x 7) mm