



control **motion** electronics  
the electronic company

# FOSpy

## Functionality

**Adapter for bidirectional coupling of electrical and optical signals**

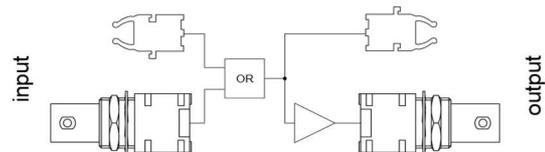
- Electrical signal → Optical signal
- Optical signal → Electrical signal
- Looping into an existing optical connection for signal analysis

## Application scenarios

- **Control of converter systems**  
Control of converter systems for test purpose (for example for measuring switching losses) with a frequency generator
- **Data acquisition at converter systems**  
Analysis of decentralized AD converters whose measurement data are transmitted optically
- **Verification of the control system**  
Functionality of all optical signal can be verified without the target system
- **Triggering of measuring devices**  
Fully galvanically decoupled triggering by an optical connection

## Characteristics

- Transfer frequency: 0Hz – 30Mhz
- Propagation delay: 60ns
- Electrical plugs: BNC
- CMOS compatible 5V in-/outputs
- Optical plugs: compatible to HFBR4501Z
- Optical link: 1mm POF
- Optical wave length: 630-685nm (rot)
- Power supply: 20 – 28V
- Maximum supply current: 20mA
- Operating temperature: 0 – 40°C



Order-Code	Scope of delivery
FoSpy	<ul style="list-style-type: none"><li>• FoSpy modul</li><li>• Power supply cable with banana plugs</li></ul>

Customer-specific adaption realisable