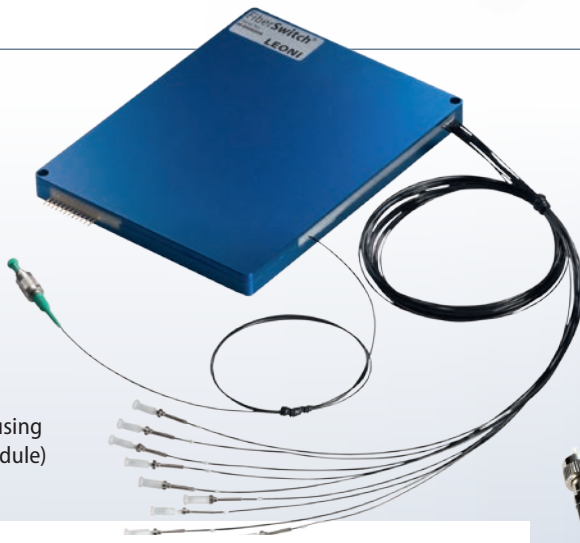# FiberSwitch® Fiber optical multimode switches

mol 1×9
standard housing
(multiple module)

mol 1×4
standard housing
large

mol 1×N (N = 1…16) · mol 2×N

For requests please specify

- Number of output channels N
- Spectral range (operating wavelength range / UV-VIS; VIS-IR; Broadband)
- Low-Etalon-Effect option available for spectroscopy
- Fiber type (e.g. core diameter, NA, GI or SI)
- Pigtail length (m)
- Connector type(s) (e.g. SMA, FC, ST)
- Electrical interface (e.g. RS232, TTL, I2C, Ethernet, USB)
- Special requirements
- Switch versions 2×N see page 20

Core diameter		50–100 µm	
Specifications			
Number of output channels N		1…4	5…16
Operating wavelength	[nm]	Depending only on fiber characteristics	
Insertion loss	[dB]	< 1.0 (0.7)	< 2.0 (1.4)
Crosstalk	[dB]	< −60	
Repeatability	[dB]	0.03	
Switching times	[ms]	5	
Guaranteed lifetime	[cycles]	> 10^8	
Switching frequency	[s^{-1}]	≤ 50	
Operating voltage typ.	[V]	5 (+/−10 %)	
Power consumption	[mW]	< 450	
Operating temperature	[°C]	0 up to +60	
Storage temperature	[°C]	−40 up to +80	
Housing dimensions (example) for pigtail version [mm]		standard large	standard multiple module
Housing dimensions, e.g. for coupling sleeve version		Alu Compact 1	Alu Compact 4

Selection of useable housing dimensions	
Standard large	124 × 56 × 13
Standard multiple module	172 × 134 × 13.5
Alu Compact 1	187 × 125 × 30-80
Alu Compact 2	227 × 166 × 30-80
Alu Compact 3	187 × 225 × 30-80
Alu Compact 4	227 × 266 × 30-80

Please note: To minimize back reflection and spectral etalon effects both AR coatings and angle polished fiber ends can be implemented; please request for this.