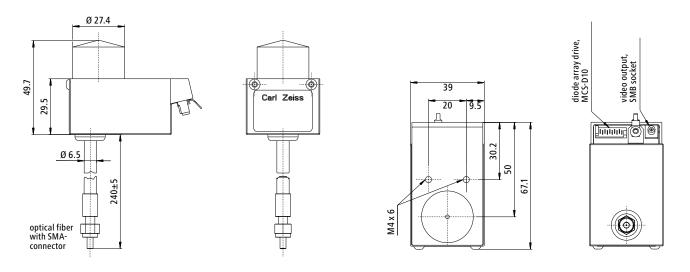
## **Technical Specifications**

Optical entrance		Fiber bundle consisting of approx. 30 quartz glass fibers with 70 µm core diameter each, designed as a cross section converte	
input round		Diameter: 0.5 mm  NA = 0.22 (has to be filled for full specification) mounted in SMA-coupling 70 µm x 2500 µm (optical entrance)	
output linear Grating		Flat-field, 366 I/mm (center)	
Diode array		Producer: Type: Number pixels:	Hamamatsu S3904-256Q in a special housing (S5713) (S8381-256Q for MMS 1 NIR enhanced) 256
Spectral range		310 nm – 1100 nm specifications for the range 360 nm – 900 nm (UV-VIS enhanced) 400 nm – 1000 nm (NIR enhanced)	
Wavelength ac	ccuracy	0.5 nm	
Temperature – induced drift		< 0.01 nm/K	
Mean spectral pixel pitch		$\Delta\lambda_{P_{ixel}} \approx 3.3 \text{ nm}$	
Resolution		Δλ <sub>FWHM</sub> ≈ 10 nm	
Sensitivity		≈ 10³ Vs/J	
Straylight		as transmission $\leq 0.2 \%$ with H	alogen lamp for UV-VIS enhanced at 450 nm with filter GG 495 alogen lamp for NIR enhanced at 650 nm with filter RG 695
Dimensions	total (with case) cross section converter (external length)	70 x 50 x 40 m 240 mm standa	m³ ard, up to 1 m available



Order No.	Designation	Wavelength range	Description
224001-9001.000	MMS 1 UV/VIS enh.	310 – 1100 nm	PDA with 256 pixels, 240 mm external fiber length
224001-9011.000	MMS 1 UV/VIS enh.	310 – 1100 nm	PDA with 256 pixels, 180 mm external fiber length
000000-1233.038	MMS 1 NIR enh.	310 – 1100 nm	S8381 PDA with 256 pixels, 240 mm external fiber length

Order numbers for operating electronics → Page 27, Order numbers for software products → Page 53