

# FPS Accessories - Sensor Heads, Fibers, and Feedthroughs

accessories for FPS1010, FPS3010, FPS3010-19"

## Technical Specifications

### FPSH Sensor Heads - "Standard"

dimensions	∅ 14 mm, length 18 mm
mounting	metric M12 x 0.5
linear measurement range	0..3000 mm
angular measurement range	see figure in the brochure / catalog
connector	FC/PC
working environment	/RT, /HV, /LT, /UHV, /RAD

### FPSH Sensor Heads - "Flex"

dimensions	∅ 22 mm, length 24 mm
mounting	metric M15.5 x 0.5
linear measurement range	0..3000 mm
angular measurement range	see figure in the brochure / catalog
connector	FC/PC
working environment	/RT, /HV, /LT, /UHV

### FPSH Sensor Heads - "xs"

dimensions	∅ 4 mm, length 11.5 mm
mounting	clamped
linear measurement range	option 1: 15-30 mm, option 2: 30-40 mm
angular measurement range	see figure in the brochure / catalog
connector	none (fiber glued)
working environment	/RT, /HV, /LT, /UHV

### FPSH Sensor Heads - Working Environment

/RT	ambient conditions
/HV	0..100°C, 1E-8 mbar
/UHV	0..150°C, 1E-10 mbar
/LT	mk..423 K, cryogenic vacuum
/RAD	0..150°C, up to 10 MGy radiation dose

### FPGF Single Mode Fibers

FPSMF/RT	FC/PC-FC/APC, ∅ 900 µm, length 5 m
FPSMF2/RT	FC/PC-FC/APC, ∅ 3 mm, length 5 m
FPSMF3/RT	FC/APC-FC/APC, ∅ 3 mm, length 5 m
FPSMF/HV	FC/PC-FC/APC vacuum fiber, Acrylate coated, length 5 m
FPSMF/UHV	FC/PC-FC/APC vacuum fiber, Polyimide coated, length 3 m
FPSMF/LT	FC/PC-FC/APC cryogenic fiber, Acrylate coated, length 5 m
FPSMF/RAD	FC/PC-FC/APC vacuum fiber, Polyimide coated, length 3 m

1) number of subsequent articles are adjusted accordingly

### FPSH Sensor Kit Packages - Scope of Delivery

axes	1 or 3 <sup>1)</sup>
sensor head	standard (/M12), flex (/M15.5), or xs
mirror	∅ 9 mm, Al coated
single mode fiber	FPSMF/RT
<b>Additional items depending on environmental conditions:</b>	
/HV option	FPSMF/HV
/UHV option	FPSMF/UHV
/LT option	FPSMF/LT
/RAD option	FPSMF/RAD

### FPVFT - Vacuum Fiber Feedthroughs

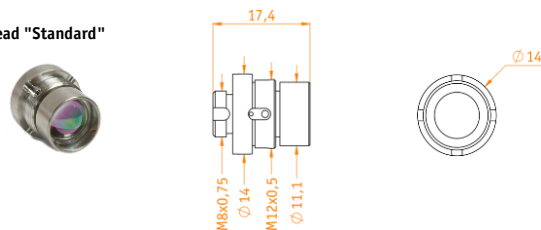
axes	1 or 3, depending on type
connectors	FC/APC (both sides)
flange types	KF or CF
flange sizes	16, 25, 40, 50, 63
KF specifications	0..100°C, 1E-8 mbar
CF specifications	0..150°C, 5E-11 mbar

### Article Numbers

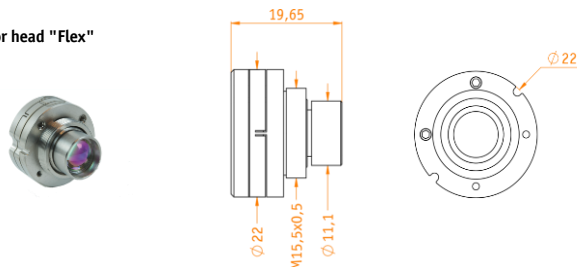
FPSH/1 or 3/M12/RT	1007571 or 1007187
FPSH/1 or 3/M12/LT/HV	1007188 or 1007578
FPSH/1 or 3/M12/UHV	1007190 or 1007191
FPSH/1 or 3/M12/RAD	1008985 or 1008986
FPSH/1 or 3/M15.5/RT	1007752 or 1007755
FPSH/1 or 3/M15.5/LT/HV	1007753 or 1007756
FPSH/1 or 3/M15.5/UHV	1007754 or 1007757
FPSH/1 or 3/M15.5/RAD	1010144 or 1010145
FPSH/1 or 3/xs/RT	op1: 1009939/1009940 op2: 1009941/1009942
FPSH/1 or 3/xs/LT/HV	op1: 1009943/1009944 op2: 1009945/1009946
FPSH/1 or 3/xs/UHV	op1: 1009937/1009948 op2: 1009949/1009950
FPSH/1 or 3/xs/RAD	op1: 1010146/1010147 op2: 1010148/1010149
FPSMF/RT	1003543
FPSMF2/RT	1004563
FPSMF3/RT	1000940
FPSMF/HV	1007349
FPSMF/UHV	1007350
FPSMF/LT	1007349
FPVFT/1/KF16 or CF16	1007199 or 1008529
FPVFT/1/KF25 or CF25	1007200 or 1007146
FPVFT/1 or 2 or 3/KF40	1007201 or 1009094 or 1007203
FPVFT/1 or 3/KF50	1007202 or 1007204
FPVFT/1 or 3/CF40	1007192 or 1007196
FPVFT/1 or 3/CF50	1007193 or 1007197
FPVFT/1 or 3/CF63	1007195 or 1007198

## Drawings

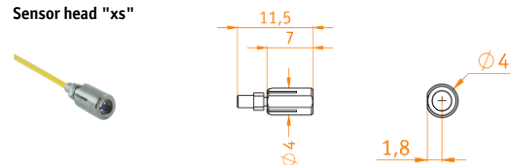
### Sensor head "Standard"



### Sensor head "Flex"



### Sensor head "xs"



### Vacuum Feedthrough FPVFT

