

FPS Accessories - Sensor Heads "Standard" and "Flex"

for FPS1010, FPS3010, FPS3010-19"

Technical Specifications

FPSH Sensor Heads - "Standard"

optics type	collimating
dimensions	Ø 14 mm, length 18 mm
mounting	metric M12 x 0.5
spot size	1.6 mm
focal length	∞
connector	FC/PC
working environment	/RT, /HV, /LT, /UHV, /RAD
low reflective targets:	
measurement mode	single pass mode
linear measurement range	0..3000 mm (with plane glass)
alignment tolerance	± 0.04°
high reflective targets:	
measurement mode	dual pass mode
linear measurement range	0..100 mm
alignment tolerance	± 0.5° @ 50 mm
measurement mode	single pass mode
linear measurement range	0..3000 mm (with retroreflector)
alignment tolerance	± 2°

FPSH Sensor Heads - Working Environment

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

FPSH Sensor Kit Packages - Scope of Delivery

axes	1 or 3 (number of subsequent articles are adjusted accordingly)
sensor head	standard (/M12) or flex (/M15.5)
mirror	Ø 9 mm, Al coated

Additional items depending on environmental conditions:

/RT option	FPSMF/RT
/HV option	FPSMF3/RT + FPSMF/HV
/UHV option	FPSMF3/RT + FPSMF/UHV
/LT option	FPSMF3/RT + FPSMF/LT
/RAD option	FPSMF3/RT + FPSMF/RAD

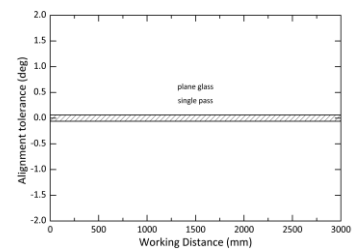
Article Numbers

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

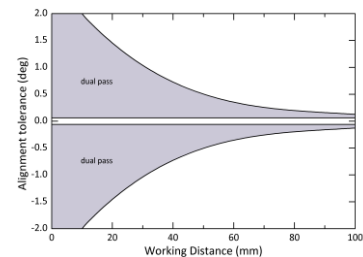
FPSH Sensor Heads - "Flex"

optics type	collimating
dimensions	Ø 22 mm, length 20 mm
mounting	metric M15.5 x 0.5
spot size	1.6 mm
focal length	∞
connector	FC/PC
working environment	/RT, /HV, /LT, /UHV, /RAD
low reflective targets:	
measurement mode	single pass mode
linear measurement range	0..3000 mm (with plane glass)
alignment tolerance	± 0.04°
high reflective targets:	
measurement mode	dual pass mode
linear measurement range	0..100 mm
alignment tolerance	± 0.5° @ 50 mm
measurement mode	single pass mode
linear measurement range	0..3000 mm (with retroreflector)
alignment tolerance	± 2°

FPSH "Standard" & "Flex" - Single Pass Performance

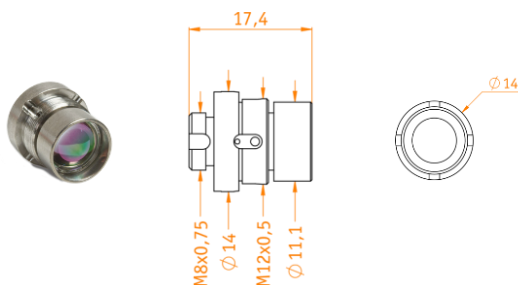


FPSH "Standard" & "Flex" - Dual Pass Performance



Drawings

Sensor Head "Standard"



Sensor Head "Flex"

