## 1.1.2.11 Accessories for High Power Water Cooled Sensors 1.1.2.11.1 Fiber Adapter for Ophir High Power Sensors

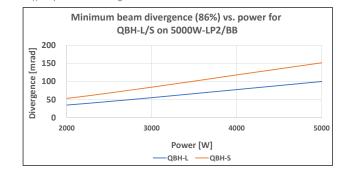
Adapters for high power fiber connectors are available for Ophir sensors L1500W and 5000W for use in industrial environments. The fiber adapters allow mounting of QBH fiber terminators to Ophir sensors. When using an adapter, the fiber output is centered on the sensor surface and is isolated from surrounding dust and contaminants. Choice of the correct adapter model depends on the power and divergence angle of the laser being measured, see specs below.



Description	QBH fiber adapter for high power sensors models				
Use	Adapter for direct measurement of QBH fiber output				
Sensors Supported	L1500W-LP2-50, L1500W-BB-50, 5000W-LP2-50 and 5000W-BB-50 (a)				
Added Error	1% for BB type coatings				
Housing Temperature at Max Power	55°C <sup>(b)</sup>				
Cooling	Water, maximum temperature 30°C				
Fiber Adapter Water Flow Requirements	2 liter/min, minimum <sup>(c)</sup>				
Water Connectors	(2x) Quick Connect Fitting For Ø3/8 Plastic Hose (d)				
Model	QBH-L-Fiber Adapter	QBH-S-Fiber Adapter			
Maximum Beam Divergence Half Angle (e)	120 mrad (180 mrad)	180 mrad (270 mrad)			
Minimum Beam Divergence Half Angle	See note (f)	See note (f)			
Dimensions	See drawing below	See drawing below			
Part number	7Z08348	7Z08349			
Note: (a) Please note that older versions of the above	sensors do not have the requisite 4 threads on Ø70mm circle on th	eir front flange and cannot be used with the QBH adapter.			

Note: (c) The water flow requirements of the fiber adapter are much lower than that of the water-cooled sensor (see the sensor data sheet for details). Therefore, the fiber adapter can be connected in series with the sensor water supply but then the water flow rate of both will have to meet the sensor minimum water flow rates.

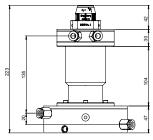
Note: (e) Divergence angle given defines radius of beam containing 86% of power, the divergence of 98% of the power is given in brackets. Note: (f) Graphs of beam divergence:

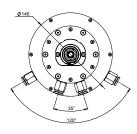


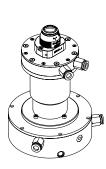
		m divergend L/S on L150	:e (86%) vs. p 0W-LP2/BB	ower for	
70 60 50 40					
00 00 00 00 00 00 00 00 00 00 00 00 00 0					
□ 0 500	700	900 Powe	1100 er [W] ——QBH-S	1300	1500

High Power QBH-Fiber Adapter Mounted on a 5000W-LP2-50 Sensor

**QBH-L-Fiber Adapter** 







**QBH-S-Fiber Adapter** 

