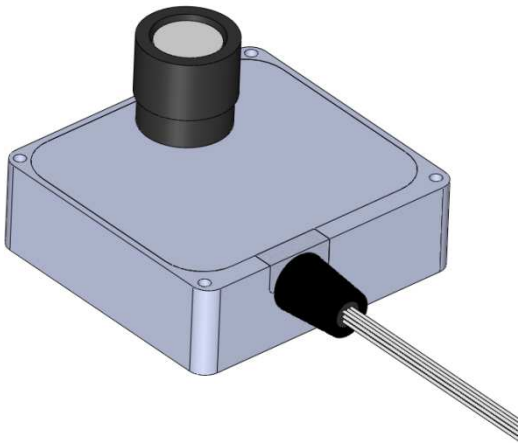
Optical Switch

OSW

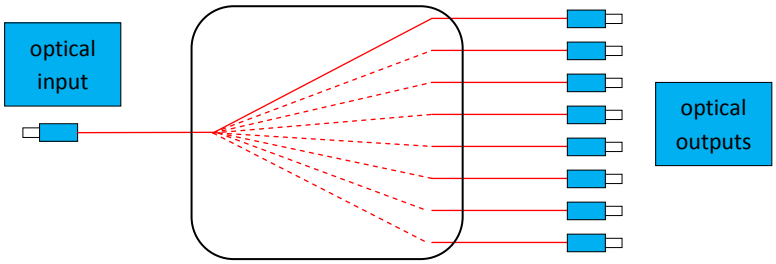
1 – Description

The Optical Switch (OSW) is a manual device that enables to switch from one input fiber to 8 output fibers.



Manual OSW

2 – Block diagram



Block diagram: OSW

3 – Absolute maximum ratings

Parameter	Symbol	Min	Typ.	Max	Unit	Remarks/Conditions
Maximal optical input power	OpIn			500	mW	
Storage temperature range	STR	-10		85	°C	
Humidity	RH	5		85	%	Non condensing
Fiber bend radius		20			mm	

4 – Operating conditions

Parameter	Symbol	Min	Typ.	Max	Unit	Remarks/Conditions
Operating wavelength	OWR	1520		1620	nm	
Operating temperature range	OTR	10		80	°C	Non condensing

5 – Specifications

Parameter		Symbol	Min	Typ.	Max	Unit	Remarks/Conditions
# of output fibers		#OF		8			Custom output numbers on request
Insertion losses		IL		0.7	1.0	dB	
Polarization Dependant Losses		PDL		0.1	0.3	dB	
Polarization Extinction Ratio		PER	20			dB	PM version
Optical Return Loss		ORL	35			dB	
Crosstalk		XTLK	40			dB	
Packaging size			80x85x26			mm	
Fiber Pigtail Type	SM		SMF-28				With 900µm loose tube
	PM		PANDA PM				
Fiber Pigtail Length			0.9	1.0	1.1	m	

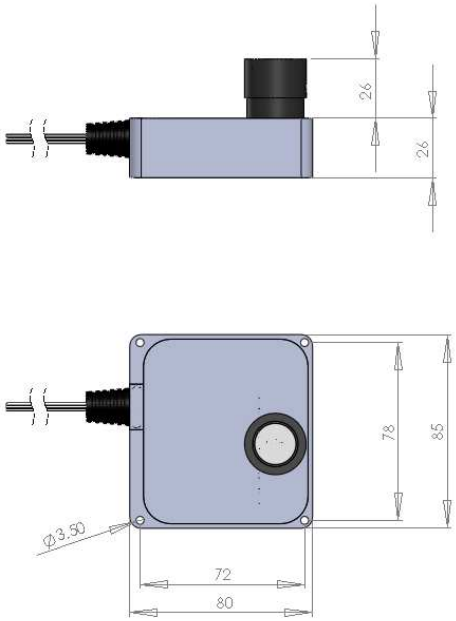
6 – Manual operation

The switch has no external control but a knob with an indicator showing the identification of the output fiber.

7 – PM version

With added purification polarizer, the guaranteed PER meets the high grade for PM components.

8 – Package layout



Manual OSW Packaging

9 – Revision

date	version	Object
April 15, 2013	OSW V1.0	Creation