

# SWITCHES

## 1x8 PRISM SWITCH

DiCon's 1x8 Prism Switch provides channel selection between a single input fiber and one of eight output fibers. Actuated electrically and operating independently of data rate and signal format, the component uses moving prisms between fixed collimators. DiCon's 1x8 Prism Switch is housed in a compact, environmentally stable package designed for mounting on a printed circuit board or within a module.

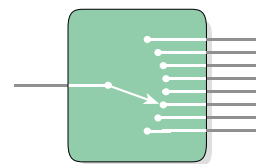


### FEATURES

- Very fast switching speed
- Ultra low insertion loss
- Built in position sensor
- Low polarization dependent loss
- Wide wavelength range

### APPLICATIONS

1x8 Switches are used for optical channel monitoring applications with up to eight tapped fibers.



1x8 Switch



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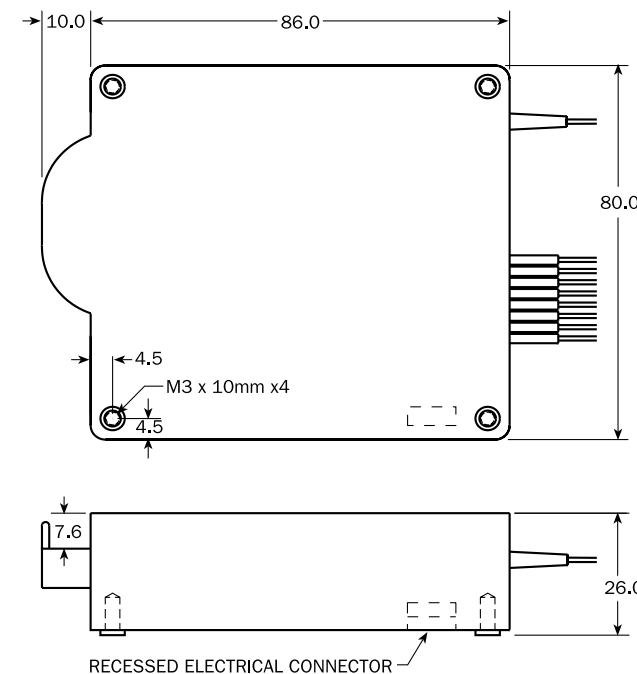
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## SPECIFICATIONS<sup>1</sup>

Wavelength range	1290.0 - 1625.0 nm
Insertion loss <sup>2</sup>	2.0 dB max.
Back-reflection	55 dB max.
Switching time	75 ms max.
Cross-talk	-50 dB max.
PDL <sup>2</sup>	0.15 dB max.
Switching voltage	4.5 VDC min., 5.2 VDC max.
Switching current	400 mA
Fiber type	9/125 Corning SMF-28
Fiber jacket	0.9 mm, tight buffer
Operating temperature	-20°C to +65°C
Storage temperature	-40°C to +85°C

1. All specifications referenced without connectors.
2. Measured at 1550 nm.

## HOUSING DIMENSIONS



Units: mm  
Electrical connector is 10-pin top-entry vertical receptacle (Berg 92912-110).

## ORDERING INFORMATION

Connector Type	
FC	FC/SPC
FC/APC	FC/APC
FC/UPC	FC/UPC
SC	SC/SPC
SC/APC	SC/APC
SC/UPC	SC/UPC
ST	ST/SPC
ST/UPC	ST/UPC
LC	LC/SPC
LC/UPC	LC/UPC
MU/UPC	MU/UPC
N	None
Pigtail Length	
1	1 meter
X	Specify X meters

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