

SWITCHES

1x4 PRISM SWITCH

DiCon's 1x4 Prism Switch provides channel selection between a single input fiber and one of four output fibers. Actuated electrically and operating independently of data rate and signal format, the component uses moving prisms between fixed collimators. DiCon's 1x4 Prism switch is housed in a compact, environmentally stable package designed for mounting on a printed circuit board or within a module.

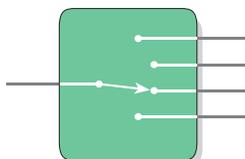


FEATURES

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

APPLICATIONS

1x4 switches are used for network monitoring applications with up to four monitored fibers.



1x4 Prism Switch



SWITCHES

SPECIFICATIONS¹

Wavelength range	1290.0 - 1625.0 nm
Insertion loss ²	1.0 dB typ., 1.5 dB max.
Back-reflection	-55 dB max.
Switching time	20 ms max.
Cross-talk	-50 dB max.
PDL ²	0.1 dB max.
Switching voltage	4.5 VDC min., 5.2 VDC max.
Switching current	300 mA max.
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
Humidity	60°C/90%RH/14 days

- All specifications referenced without connectors.
- Measured at 1550 nm.

ORDERING INFORMATION

SP - 1 - 4 - -

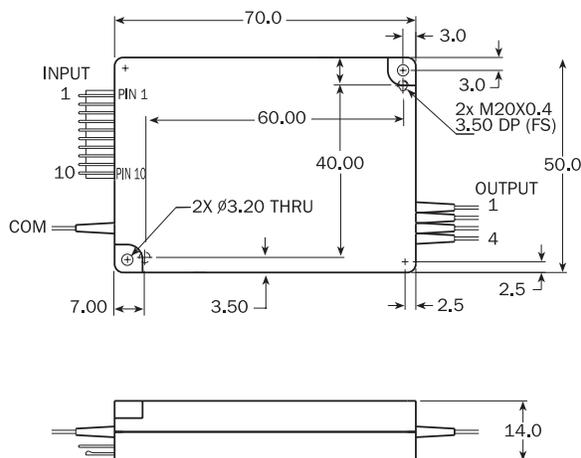
Connector Type

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/UPC
N	None

Pigtail Length

1	1 meter
X	Specify X meters

HOUSING DIMENSIONS



Units: mm

ACTUATION STYLE

Actuation Style	Common	Switch Control	Position Sensor	Switch Control	Switch Control	Position Sensor	Switch Control	Switch Control	Position Sensor	Switch Control
	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10
IN-OUT1	+5VDC	GND	Low ^a	+5VDC	+5VDC	High ^b	GND	+5VDC	High ^b	GND
IN-OUT2	+5VDC	GND	Low ^a	+5VDC	GND	Low ^a	+5VDC	+5VDC	High ^b	GND
IN-OUT3	+5VDC	GND	Low ^a	+5VDC	GND	Low ^a	+5VDC	GND	Low ^a	+5VDC
IN-OUT4	+5VDC	+5VDC	High ^b	GND	GND	Low ^a	+5VDC	GND	Low ^a	+5VDC

- Open contact
- Closed contact