

680 Series Optical Access Switch

The ShieldLITE fibre optic security system is designed for monitoring Network Intrusion or as a trigger for Emergency shut down systems.

The Access Switch, located at a remote network location, is a highly reflective optical switch that requires no local power.

It is designed to fit onto the gates or doors of cabinets, containers or underground chambers where access requires close monitoring.

When closed the switch is highly efficient at reflecting light back down the optical fibre. When the switch is open it blocks reflections to a minimum. Resulting in a high change of reflectance detectable over 80km away.

Combined with the ShieldLite Monitoring Equipment multiple switches can be installed to run over existing optical fibre infrastructure to protect and manage remote network assets and the data being transmitted.



Features

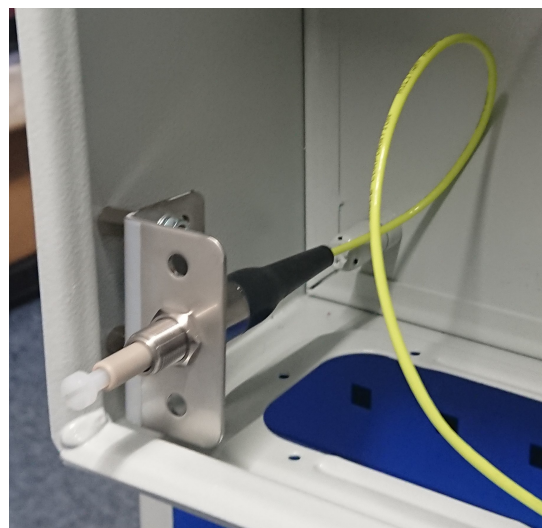
- Easy to fit to Existing Cabinets and Enclosures
- Long Distance Remote Alarms single optical fibre
- No Power required at local, remote nodes
- Choice of Reflected Wavelengths - Reflects 99.5% of the light received between 1460nm and 1640nm
- Pre-Installed or Retrofit options. Adjustable mounting position

Applications

- Field Cabinet Access Alarm Systems
- Network Monitoring Systems
- High Reflective Demarcation—RT Device
- Data-Protection—Security
- Secure Compounds— Unmanned Sites

Benefits

- Designed to withstand climatic working conditions of outdoor field applications
- Waterproof & Dust proof (IP58)
- Corrosion Resistant
- High mechanical strength - M12 mounting
- Long Life—Tested to over 10k switches



This product is covered by one or more patents and patent applications, including EP3881028

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Specifications

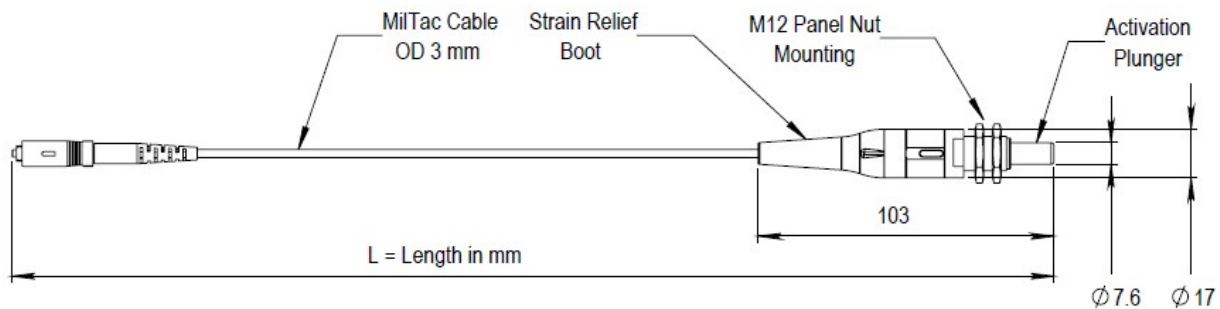
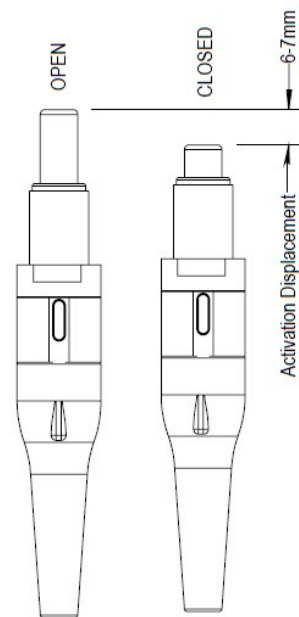
Optical Switch - S12	Material / Optical Specification
Connector Diameter	M12 Panel Mount*
Connector Length	103mm [incl.Boot]
Connector Body	Stainless Steel
Conn Body & Seal	O Ring Seals
Fibre Size	Singlemode Fibres
Insertion Loss	Typical <0.15dB
Return Loss	Closed >50dB / Open>1dB

Optical Switch - S12	Mechanical Specification
Tensile Load	≥90N [IEC61300-2-4]
Static Side Load	≥1N [IEC61300-2-42]
Vibration	10-500Hz / 10g [IEC61300-2-1]
Mating endurance	10,000+ Cycles

Optical Switch - S12	Environmental Specification
Operational Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Immersion	2m+ Water: >4hours
Dust Protection	IP58 [IEC60529] >8hours
RoHS	Compliant

Accessories

- Switch Lock Cap—Closed Reflect Position.
- Monitoring Transmission Equipment.
- Monitoring Software.
- WDM Modules.
- Connecting Cable Assemblies
- Mounting Brackets*



Access Switch Assemblies

Typical Part Numbers	Description	Fibre Type	Cable Ø	Length
680 1105 00	Access Switch — SCAPC Assembly SM Blue	SM G657A1	2.8mm Blue	5.0m
680 1105 02	Access Switch — SCAPC Assembly MilTac A Series	SM G657A2	2.9mm Black	5.0m
680 1105 03	Access Switch — SCAPC Assembly MilTac A Series	SM G657A2	5mm Lime Green	15.0m
Other cables, lengths & connectors available on request				

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