



## Fiber Optic Fault Locators and Accessories

Blue-Violet  
405 nm

Green  
532 nm

Orange  
595 nm (LED)

Red  
635 nm...690 nm

Infrared  
760 nm...1650 nm

Made in Germany



überreicht durch:

**Opternus**

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# FIBERPOINT® 250

Fiber Optic Fault Locator - Made in Germany

(Part-Number: 1400000101)

The compact design of the visual fault locator is very suitable for daily use in all fiber optic applications e.g. in the field, in industrial environment as well as in laboratory.

## APPLICATIONS

- To check singlemode/multimode optical fibers and other fiber optic components on faults.
- Patching of fibers.



Parameter	Min.	Typ.	Max.
Wavelength		635 nm	
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power: Singlemode fiber 9/125 µm Multimode fiber 50/125µm	500 µW 500 µW	700 µW 800 µW	
Optical output power			< 1 mW
Operation current		40 mA	
Retention force for ferrule		1 - 2 N	
Weight incl. batteries		163 g	
Operation time - one battery pack1 (Pulsed mode)		40 hours	
Battery type		AAA	
Operation mode		<b>continuous wave</b> ; pulsed mode: frequency 2 - 3 Hz	
Laser protection class		2	
Suitable ferrule 2.5 mm		DIN, E2000 <sup>1</sup> , FC, SC, ST	

1) wegen des Gummiwulstes um die Steckeraufnahme, rasten E2000 Stecker nicht ein - die Staubschutzklappe verhindert das vollständige Aufstecken

## INCLUDED IN DELIVERY

Dust cap, One battery pack (1 Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA), Instruction manual

## ACCESSORIES (NOT INCLUDED)

Adapters for 1.25 mm ferrules (1400000070), POF (1400000078) and SMA (1400000088) are available

## NOTES

Do not use rechargeable batteries. Compliant with RoHS-requirements (2011/65/EU from 08.06.2011). The above product specifica-

# FIBERPOINT® 250MD

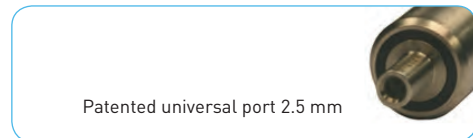
Fiber Optic Fault Locator - Made in Germany

(Part-Number: 1400000030Q / 1400000030)

The compact design of the visual fault locator is very suitable for daily use in all fiber optic applications e.g. in the field, in industrial environment as well as in laboratory.

## APPLICATIONS

- To check singlemode/multimode optical fibers and other fiber optic components on faults.
- Patching of fibers.



Parameter	Min.	Typ.	Max.
Wavelength		635 nm	
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power: Singlemode fiber 9/125 µm Multimode fiber 50/125µm	500 µW 500 µW	700 µW 800 µW	
Optical output power			< 1 mW
Operation current		40 mA	
Retention force for ferrule		1 - 2 N	
Weight incl. batteries	60 g		
Operation time - one battery pack1 (Pulsed mode)	40 hours		
Battery type	AAA		
Operation mode	<b>continuous wave</b> ; pulsed mode: frequency 2 - 3 Hz		
Laser protection class	2		
Suitable ferrule 2.5 mm	DIN, E2000, FC, SC, ST		

## INCLUDED IN DELIVERY

Dust cap, One battery pack (1 Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA), Instruction manual

## ACCESSORIES (NOT INCLUDED)

Adapters for 1.25 mm ferrules (1400000070), POF (14000000078) and SMA (1400000088) are available

## ORDER NUMBER

- 1400000030Q: Individually packed in Quadrosafe
- 1400000030: Individually packed in etui style plastic packaging

## NOTES

Do not use rechargeable batteries. Compliant with RoHS-requirements (2011/65/EU from 08.06.2011). The above product specifications are subject to change without notice. Release 02/2013.



# FIBERPOINT® ET - Black

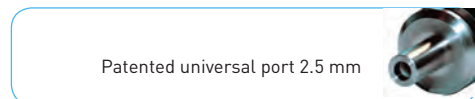
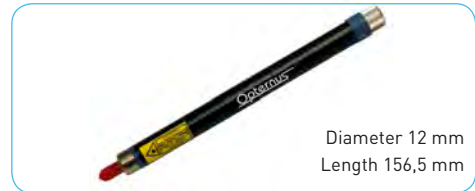
Fiber Optic Fault Locator - Made in Germany

(Part-Number: 1400000097Q / 1400000097)

The compact design of the visual fault locator is very suitable for daily use in all fiber optic applications e.g. in the field, in industrial environment as well as in laboratory.

## APPLICATIONS

- To check singlemode/multimode optical fibers and other fiber optic components on faults.
- Patching of fibers.
- Continuity check up to ~ 5km



Parameter	Min.	Typ.	Max.
Wavelength	650 nm	650 nm	660 nm
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power: Singlemode fiber 9/125 µm Multimode fiber 50/125µm	200 µW 200 µW	350 µW 600 µW	
Optical output power			< 1 mW
Operation current		35 mA	
Retention force for ferrule		1 - 2 N	
Weight incl. batteries	56 g		
Operation time - one battery pack <sup>1</sup> (Pulsed mode)	40 hours		
Battery type	AAA		
Operation mode	<b>continuous wave; pulsed mode:</b> frequency 2 - 3 Hz		
Laser protection class	2 M		
Suitable ferrule 2.5 mm	DIN, E2000, FC, SC, ST		

## INCLUDED IN DELIVERY

Dust cap, One battery pack (<sup>1</sup> Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA), Instruction manual

## ACCESSORIES (NOT INCLUDED)

Adapters for 1.25 mm ferrules (1400000070), POF (14000000078) and SMA (1400000088) are available

## ORDER NUMBER

- 1400000097Q: Individually packed in Quadrosafe
- 1400000097: Individually packed in etui style plastic packaging

## NOTES

Do not use rechargeable batteries. Compliant with RoHS-requirements (2011/65/EU from 08.06.2011). The above product specifications are subject to change without notice. Release 04/2016.

# FIBERPOINT® 250HP

Fiber Optic Fault Locator - Made in Germany

(Part-Number: 1400000102)

The compact design of the visual fault locator is very suitable for daily use in all fiber optic applications e.g. in the field, in industrial environment as well as in laboratory.

## APPLICATIONS

- To check singlemode/multimode optical fibers and other fiber optic components on faults.
- Patching of fibers.
- Continuity check up to 6.5km



Parameter	Min.	Typ.	Max.
Wavelength	630 nm	638 nm	642 nm
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power: Singlemode fiber 9/125 µm Multimode fiber 50/125µm		1700 µW 2000 µW	
Optical output power			<3 mW
Operation current		40 mA	
Retention force for ferrule		1 - 2 N	
Weight incl. batteries	163 g		
Operation time - one battery pack1 (Pulsed mode)	40 hours		
Battery type	AAA		
Operation mode	<b>continuous wave</b> ; pulsed mode: frequency 2 - 3 Hz		
Laser protection class	2		
Suitable ferrule 2.5 mm	DIN, E2000 <sup>1</sup> , FC, SC, ST		

1) wegen des Gummikulstes um die Steckeraufnahme, rasten E2000 Stecker nicht ein - die Staubschutzklappe verhindert das vollständige Aufstecken

## INCLUDED IN DELIVERY

Dust cap, One battery pack (1 Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA), Instruction manual

## ACCESSORIES (NOT INCLUDED)

Adapters for 1.25 mm ferrules (1400000070), POF (1400000078) and SMA (1400000088) are available

## NOTES

Do not use rechargeable batteries. Compliant with RoHS-requirements (2011/65/EU from 08.06.2011). The above product specifica-



## Accessoires

### Adapter 2.50 mm to 1.25 mm

**Applications:** - Adapts patented **2.50 mm FIBERPOINT®** connection to a **1.25 mm** connection. Consequently you can check most of the popular fiber connector types with just one fiber fault locator.



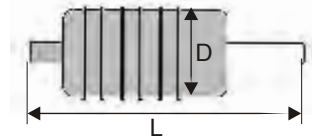
FIBERPOINT® 250 with Adapter



FIBERPOINT® 250MD with Adapter



Ferrule 1.25 mm



D (mm)	8.5
L (mm)	26

Parameter	Specification
Side of the FIBERPOINT®	2.50 mm SM-ferrule
Side of the fiber	1.25 mm connection for LC, MU, F3000 etc.
Attenuation	< 1.0 dB
Weight	10 g

**Included in delivery:** - Dust cap on both sides, Plastic foil bag packaging

Eigenschaftsvergleich Fiberpoint®				
Model	250	250MD	ET (OPTERNUS)	250HP
Größe: Ø / Länge (mm)	n.a.	12 / 167	12,1 / 151	n.a.
Betriebsarten	CW und gepulst 2-3Hz	CW und gepulst 2-3Hz	CW und gepulst 2-3Hz	CW und gepulst 2-3Hz
Ferrule 2,5mm optional Adapter auf 1,25mm	DIN, E2000, FC, SC, ST	DIN, E2000, FC, SC, ST	DIN, E2000, FC, SC, ST	DIN, E2000, FC, SC, ST
Wellenlänge (typ.)	635nm	635nm	650nm	638nm
Einsatztemperatur	-10° /+ 45°C	-10° /+ 45°C	-10° /+ 45°C	-10° /+ 45°C
Lagertemperatur	-40° /+70°C	-40° /+70°C	-40° /+70°C	-40° /+70°C
Ausgangsleistung	1mW	1mW	1mW	3mW
Eingekoppelte Leistung SM	700µW (typ.)	700µW (typ.)	350µW (typ.)	1700µW (typ.)
Eingekoppelte Leistung MM	800µW (typ.)	800µW (typ.)	600µW (typ.)	2000µW (typ.)
Haltekraft der Ferrule	1-2N	1-2N	1-2N	1-2N
Gewicht inkl. Batterien	163g	60g	56g	163g
Betriebsdauer (2xAAA1,5V)	40h	40h	40h	40h
Laserschutzklasse	2	2	2 M	2



## Accessoires

### Adapter for POF (polymer optical fiber)



**Applications:** - Adapts the patented **2.50 mm FIBERPOINT®** connection to a **1.5 and 2.2 mm outer diameter polymer optical fiber** connection. Consequently you can check both popular fiber connector types with one fiber fault locator.

Parameter	Specification
Side of the FIBERPOINT®	2.50 mm SM-ferrule
Side of the fiber	1.5 and 2.2 mm
Attenuation	typ. < 1.0 dB
Weight	8.5 g

**Included in delivery:** - Dust cap on both sides  
- Plastic foil bag packaging

### Adapter for SMA



**Applications:** - Adapts patented **2.50 mm FIBERPOINT®** connection to **SMA 905** connection. Consequently you can check both popular fiber connector types with just one fiber fault locator.

Parameter	Specification
Side of the FIBERPOINT®	2.50 mm SM-ferrule
Side of the fiber	SMA 905 connector
Attenuation	typ. < 1.0 dB
Weight	3.5 g

**Included in delivery:** - Dust cap on both sides  
- Plastic foil packaging

# FIBERPOINT® ET G

Fiber Optic Fault Locator - Made in Germany

(Part-Number: 1400000103Q / 1400000103)

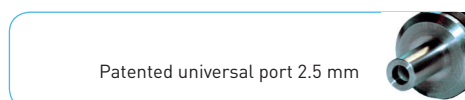
The compact design of the visual fault locator is very suitable for daily use in all fiber optic applications e.g. in the field, in industrial environment as well as in laboratory.

## APPLICATIONS

- To check singlemode/multimode optical fibers and other fiber optic components on faults.
- Patching of fibers.
- Continuity check up to ~ 3 km

## FEATURES

- Private labelling is available at no extra cost.
- Minimum order quantity applies



Parameter	Min.	Typ.	Max.
Wavelength	510 nm	520 nm	530 nm
Operation temperature	- 10 °C		45 °C
Storage temperature	- 40 °C		70 °C
Fiber coupled power: Singlemode fiber 9/125 µm Multimode fiber 50/125µm	200 µW 200 µW	350 µW 600 µW	
Optical output power			< 1 mW
Retention force for ferrule		1 - 2 N	
Weight incl. batteries			56 g
Operation time - one battery pack <sup>1</sup> (Pulsed mode)			12 hours
Battery type			AAA
Operation mode			<b>continuous wave; pulsed mode:</b> frequency 2 - 3 Hz
Laser protection class			2
Suitable ferrule 2.5 mm			DIN, E2000, FC, SC, ST

## INCLUDED IN DELIVERY

Dust cap, One battery pack (1 Battery: VARTA Industrial Alkaline No. 4003; 1.5 V; AAA), Instruction manual

## ACCESSORIES (NOT INCLUDED)

Adapters for 1.25 mm ferrules (1400000070), POF (1400000078) and SMA (1400000088) are available

## ORDER NUMBER

- 1400000103Q: Individually packed in Quadrosafe
- 1400000103: Individually packed in etui style plastic packaging

## NOTES

Compliant with RoHS-requirements [2011/65/EU from 08.06.2011]. The above product specifications are subject to change without notice. Release 07/2019 - Version 2.

überreicht durch:

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# Reichweite FIBERPOINT®

## ANNAHME

Bei 50 nW (entspricht -43 dBm) und einer Umgebungshelligkeit von ca. 500 - 1000 Lux kann das **ROTE LASERLICHT** sicher beim direkten Blick in das Faser-/Steckerende erkannt werden.

Bei 5 nW (entspricht -53 dBm) kann das **GRÜNE LASERLICHT** sicher beim direkten Blick in das Faser-/Steckerende bei einer Umgebungshelligkeit von ca. 500 - 1000 Lux erkannt werden.



- Eine Singlemodefaser (z. B. SMF-28) hat bei **650 nm** eine Dämpfung von ca. 7 dB / km
- Eine Singlemodefaser (z. B. SMF-28) hat bei **520 nm** eine Dämpfung von ca. 17 dB / km
- Ein **FIBERPOINT® ET** koppelt ca. 350 µW in eine Singlemodefaser mit 9 µm Kerndurchmesser ein, das entspricht ca. -4,5 dBm
- Ein **FIBERPOINT® 250MD** koppelt ca. 700 µW in eine Singlemodefaser mit 9 µm Kerndurchmesser ein, das entspricht ca. -1,5 dBm
- Ein **FIBERPOINT® 250** koppelt ca. 700 µW in eine Singlemodefaser mit 9 µm Kerndurchmesser ein, das entspricht ca. -1,5 dBm
- Ein **FIBERPOINT® 250HP** koppelt ca. 1700 µW in eine Singlemodefaser mit 9 µm Kerndurchmesser ein, das entspricht ca. +2,3 dBm
- Ein **FIBERPOINT® ET G** koppelt ca. 350 µW in eine Singlemodefaser mit 9 µm Kerndurchmesser ein, das entspricht ca. -4,5 dBm

## ABSCHÄTZUNG DES LEISTUNGSBUDGET

### FIBERPOINT® ET

-43 dBm - (-4,5 dBm) => 38,5 dB

### FIBERPOINT® 250

-43 dBm - (-1,5 dBm) => 41,5 dB

### FIBERPOINT® ET G

-53 dBm - (-4,5 dBm) => 48,5 dB

### FIBERPOINT® 250MD

-43 dBm - (-1,5 dBm) => 41,5 dB

### FIBERPOINT® 250HP

-43 dBm - (+2,3 dBm) => 45,3 dB

## ABSCHÄTZUNG DER REICHWEITE

### FIBERPOINT® ET

$\frac{38,5 \text{ dB}}{7 \text{ dB/km}} \Rightarrow$  **ca. 5,5 km**

### FIBERPOINT® 250

$\frac{41,5 \text{ dB}}{7 \text{ dB/km}} \Rightarrow$  **ca. 6,0 km**

### FIBERPOINT® ET G

$\frac{50,0 \text{ dB}}{17 \text{ dB/km}} \Rightarrow$  **ca. 3,0 km**

### FIBERPOINT® 250MD

$\frac{41,5 \text{ dB}}{7 \text{ dB/km}} \Rightarrow$  **ca. 6,0 km**

### FIBERPOINT® 250HP

$\frac{45,3 \text{ dB}}{7 \text{ dB/km}} \Rightarrow$  **ca. 6,5 km**