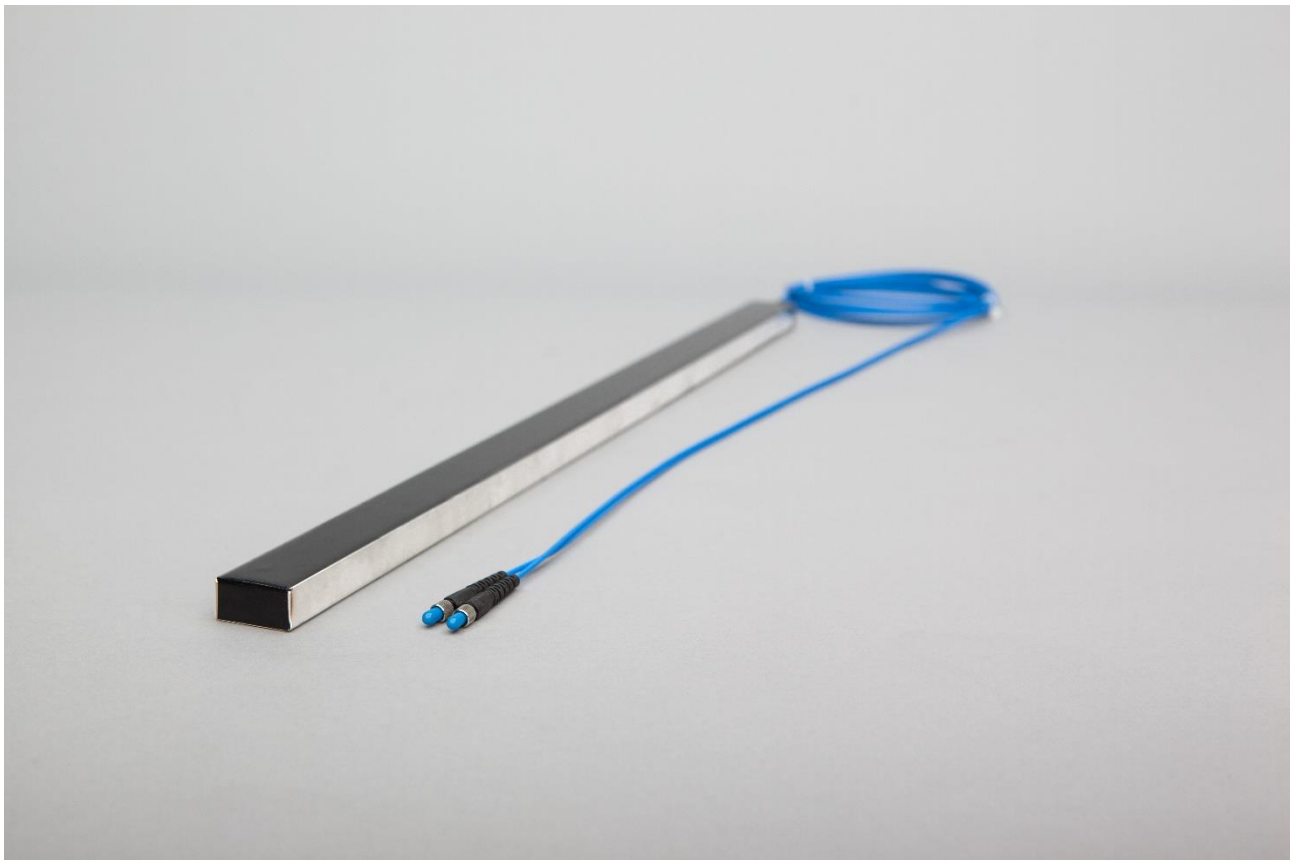


Sensor Line XID Sensor

FOT-XID Series Traffic Sensor for Installation in Metal Treadles



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PRODUCT DESCRIPTION

The Sensor Line FOT-XID Series Traffic Sensor is a polyurethane-based reinforced fiber optic load traffic sensor designed for permanent installation in FOT-XID Series Treadles. Due to its special shape a fast and long-term installation is guaranteed.

The pressure of a wheel deforms the SL FOT-XID sensor. This deformation decreases the optical transmittance inside the sensor. This transmittance change is detected by our opto-electronic interfaces and is transformed into signals for traffic data processing.

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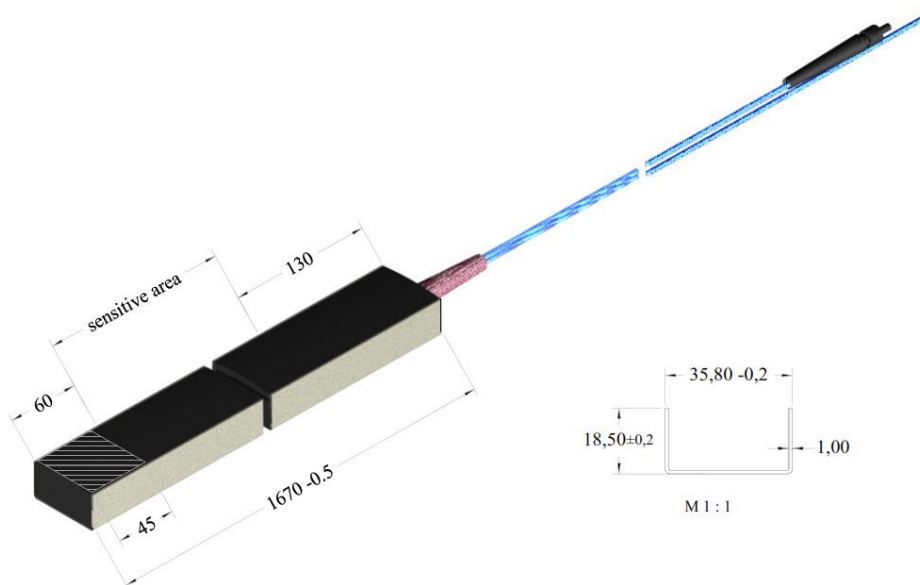
CHARACTERISTICS

- Detects vehicles such as cars, trucks, busses, motorbikes, bicycles and strollers by pressure on the sensor
- FOT-XID Series Traffic Sensor™ Fiber Optic Sensor is sensitive to vertical pressure
- The sensor installation is done flush and even to the road surface in FOT-XID Series Treadles.
- Comprises the sensor element itself, a fiber optic feeder cable and fiber optic connectors
- To operate the sensor, a connection to a Sensor Line opto-electronic interface is necessary

BENEFITS

- Highest detection accuracy is ensured through a defined installation in FOT-XID Series Treadles.
- Independent of all kinds of weather effects like fog, rain, snow, nighttime and smoke
- Easy and fast replacement.
- Fiber optic cable is EMV immune – no impact by electric vehicles, any other magnetic fields or lightning
- Fiber optic cable is noise free – clear analog or digital trigger output
- No maintenance or calibration needed – neither at installation nor afterwards
- Unique strip lifetime ensures low maintenance costs

SKETCH in (mm)



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DIMENSIONS

Sensor Element	Length	Up to 4 m
	Insensitive zones	tip 60 mm / feeder joint 130 mm
	Width	36 mm
	Height	19 mm
	Weight (without feeder cable)	3,75 kg / m
	Shore hardness PUR	85-87
Fiber Optic Feeder Cable	Outer dimension	2.5 x 5 mm
	Length (Standard)	2, 5, 10, 25, 33, 50 m
	Weight	12 g/m
	Maximum short term pull tension	20 N
	Minimum bending radius	25 mm
PE enforced Feeder Cable	Outer dimension	4 x 6.6 mm
	Length (Standard)	2, 5, 10, 25, 33, 50 m
	Weight	25 g/m
	Maximum short term pull tension	60 N
	Minimum bending radius	25 mm
Fiber Connectors (FSMA-905 plastic)	Length	34 mm
	Max. diameter	8.5 mm

PERFORMANCE	Maximum speed	up to 250 km/h
	Operating / storage temperature	-30°C to 85°C
	Humidity	no limitation
	Warranty	2 years or 5 million axles
	MTBF	5 years

ACCOMPANYING PRODUCTS

SL MA-110 / 210 / 310 – Electronic Interface with 1 – 3 channels
 SL MD-220 – Electronic Interface

ORDERUNG INFORMATION

SL XID XXX-1-ZZ (PE)	XXX: Sensor length (cm)
	ZZ: Cable length (m)
	PE: Blue sensor cable with reinforced PE sheath