

Optical Sensors

Distance Sensors

Colour & Mark Detection

Vision Sensors

Capacitive Sensors

Inductive Sensors / Laser

Ultrasonic Sensors

Product Preview



”We set our standards not by what is possible today but by what can be achieved in the future.“



We have followed this concept since our founding and have thus laid the foundation for customer satisfaction and continuous growth. Created in 1994, SensoPart is today one of the leading suppliers in industrial sensor technology. Our concept: speed, combined with **ability for innovation, quality and customer orientation**.

For the following is as true as ever: it is not size that counts but speed...

Innovationsfähigkeit

SensoPart successfully invests in research and development at a level way above average for this branch. Impressive proof: the Dr. Rudolf Eberle Prize for Innovation for the world's smallest colour sensor, which operates with white light and also detects moving objects at varying distances according to a patented process. With the FA 45, SensoPart now sets standards in the field of vision sensors. Whether used for the detection of objects, as code reader or as colour sensor: The FA 45 offers answers for various applications at a very favourable price.

Quality

Our quality management is based above all on our ambitious targets rather than just certifications. For us, the term quality is not the same as the excellent performance of our products. Product quality is only the material foundation of a long-term and lasting relationship between the customer and supplier. Continuously checking and improving these relationships is both the means and the goal.

Customer orientation

Only customer success guarantees our own success. This is valid just as much for applications with our standard products as for the development of customer-specific applications. Customers do not buy products – they only buy what our products achieve.

We obtain the necessary trust from our customers through reliability, customer-proximity and an exemplary sales concept. Strategic partnerships with well-known companies throughout the world as well as the highly-prized first place at the "**Baden-Württemberg Sponsorship Prize for Young Companies 2002**", in which more than 600 companies participated, confirm our efforts.

Portfolio

SensoPart develops and markets sensors for all industrial applications. The main focus of the group is optical sensors, which can be subdivided as follows:

- Innovative standard sensor technology
- Laser technology
- Distance measurement/Positioning
- Detection of colour and markings
- Detection of objects
- Vision sensors

Standard products

Our products are recognised for achieving utmost performance characteristics and setting new standards on the market – not forgetting their reliability and efficiency in practice.

- Assembly and handling technology
- Automotive industry
- Mechanical engineering/Machines made to specification
- Storage and materials handling
- Packing technology
- Textile industry
- Food industry



Product range

SensoPart sensors can be found in almost every application in automation technology. They are used in piloting, controlling, positioning and checking processes. Thanks to their robust design, excellent sensory characteristics and easy use, the sensors offer high availability and top performance data.

In order to provide solutions to the multitude of industrial tasks, SensoPart uses a wide variation of physical principles in its sensors. The application determines whether light or an electric field or sound waves are used as the measuring medium – each principle has its strengths.

Optical sensors

Optical sensors are used in industry in many different ways. SensoPart has the right solution for almost every task. This begins with high-performance standard light barriers in red light, infrared light or laser versions and ends with sensors for colour detection or distance measurement. Our product range includes sensors in cylindrical metal housing and fibre-glass reinforced ABS housing. SensoPart also offers a wide range of different fibre optics in plastic or glass versions and fibre optic heads.

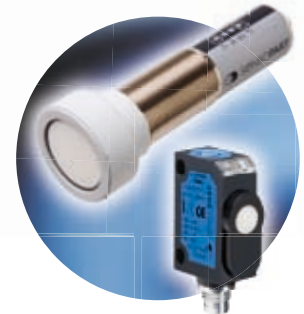
Vision sensors / vision systems

SensoPart has the right vision sensor whether it is for object, colour or code detection. With the FA45 series, we offer solutions of the highest quality in a robust, compact heavy-duty housing. Whether the task is 2D code detection or contour detection irrespective of position – the solution is FA 45. Having developed our own EYESIGHT image processing software, we can now offer a top class “all-in one” vision system.



Ultrasonic sensors

Ultrasonic sensors use a short high frequency acoustic pulse as measuring medium. This is emitted towards e.g. an object which reflects it back towards the sensor as an echo. The time of flight can be used to determine e.g. distance. Ultrasonic sensors are often used in applications where the physical principle of optical sensors reaches its limits, i.e. the detection of transparent objects or liquids. Another typical application is level measurement e.g. of bulk goods from a long distance.



Inductive sensors

Inductive proximity sensors are indispensable in industry today. They use an alternating magnetic field produced by an oscillator as their measuring medium. If a metallic object enters this magnetic field, the oscillation amplitude changes. This is analysed electrically. In contrast to optical or ultrasonic sensors, they are however only for use in close-up range. Typical operating distances vary between 0.5 mm and 40 mm.



Capacitive sensors

Our capacitive sensors detect the disturbance in an electric field caused by the presence of an object. This disturbance can be generated both by conductive (metal) and non-conductive (isolators) objects. Typical applications are in the pharmaceutical and food industry or in the paper and wood processing/machining sector.



F 20 Miniature series

The David amongst the Goliaths: it covers all requirements of optical sensor technology in cramped spaces whilst offering highly-accurate detection and ease of use. For example the FL 20 RLO version, one of the smallest retro-reflective laser light barriers with autocollimation in the world.

- Fast and reliable settings with teach-in
- Tamper-proof due to locking function
- Switching frequency up to 5 kHz for fast sequence of operations
- Adjustment via control input with inaccessible installations
- Dynamic adjustment during running operational process
- Further models: Fiber-optic amplifiers, contrast and analogue sensors
- Laser versions



H32 x W12 x D20 mm

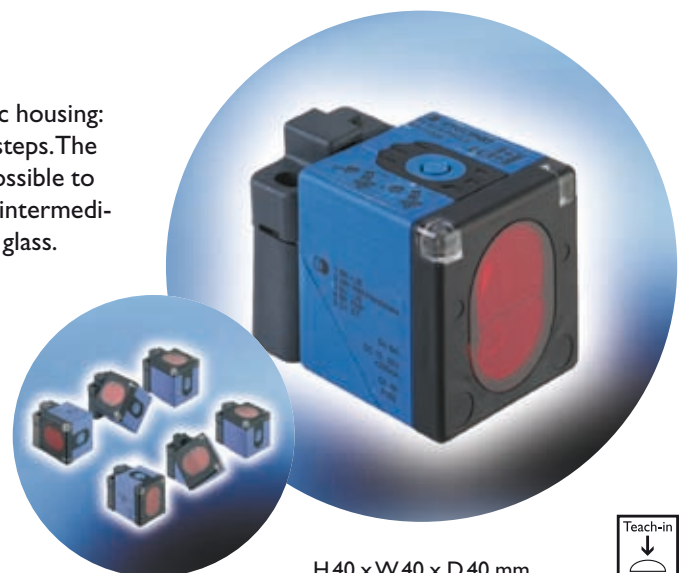


Product	Function	Range	Switching frequency	Red light	PNP	NPN	N.O.	N.C.	Connector	Cable
FT 20 R	Proximity switch	300 mm	1000 Hz	•	•	•	•	•	•	•
FT 20 RL	Contrast sensor	150 mm	4000 Hz	•	•	•	•	•	•	•
FT 20 RLH	Proximity switch with background suppression	60 mm	1000 Hz	•	•	•	•	•	•	•
FT 20 RLHD	Proximity switch with background suppression	110 mm	1000 Hz	•	•	•	•	•	•	•
FT 20 R	Proximity switch with background suppression	100 mm	1000 Hz	•	•	•	•	•	•	•
FT 20 IH	Proximity switch with background suppression	150 mm	800 Hz	•	•	•	•	•	•	•
FR 20 R	Retro-reflective sensor	2,5 m	1000 Hz	•	•	•	•	•	•	•
FR 20 RL	Retro-reflective sensor	1 m	4000 Hz	•	•	•	•	•	•	•
FR 20 RG I	Sensor for glass detection (autocollimation)	0,5 m	1000 Hz	•	•	•	•	•	•	•
FR 20 RD	Retro-reflective sensor, extended range	3,5 m	1000 Hz	•	•	•	•	•	•	•
FS/FE 20 R	Through-beam sensor	6 m	500 Hz	•	•	•	•	•	•	•
FR 20 RLO	Retro-reflective sensor (autocollimation)	1000...2500 mm	4000 Hz	•	•	•	•	•	•	•

F 40 series

The product series with the advantages of the almost standardised cubic housing: the sensor head can be rotated axially on the fixing flange, by 360° in 8 steps. The connector plug can also be rotated by 90°. This combination makes it possible to set the light emission on 5 of the 6 possible sides of the cube. 4 further intermediary settings are possible. A special highlight is the version which detects glass.

- Fast and reliable settings through teach-in procedure
- Tamper-proof due to locking function
- Visible red light (LED) for simple adjustment
- Also available as an inductive sensor
- Multi-function setting through teach-in, Apa® and Auto Teach®
- Additional control output



H40 x W40 x D40 mm



Product	Function	Range	Switching frequency	Red light	PNP	NPN	N.O.	N.C.	Connector	Cable
FT 40 R	Proximity switch	1000 mm	1000 Hz	•	•	•	•	•	•	•
FT 40 RH	Proximity switch with background suppression	250 mm	1000 Hz	•	•	•	•	•	•	•
FR 40 R	Retro-reflective sensor	6000 mm	1000 Hz	•	•	•	•	•	•	•
FR 40 RG	Sensor for glass detection (autocollimation)	1000 mm	1000 Hz	•	•	•	•	•	•	•

F 50 Series

Smart housing technology in a standard or laser version, as a proximity switch, retro-reflective sensor etc., the whole range. For integration in cramped conditions with optimum installation possibilities: the M12 connector plug is designed as a 270° rotating connector and locks into place at 45° intervals.

- Robust plastic housing
- Precise adjustment with numerical display
- Red light for easy adjustment
- Contamination output
- Control LEDs visible from all sides
- Rotating connector plug
- Further models: Colour and distance sensor
- Laser versions



H 50 x W 17 x D 50 mm

Product	Function	Range	Switching frequency	Red light	PNP	NPN	N.O.	N.C.	Connector	Cable
FT 50 RLH	Proximity switch with background suppression	150 mm	2500 Hz	•	•	•	•	•	•	•
FT 50 RLHD	Proximity switch with background suppression	300 mm	2500 Hz	•	•	•	•	•	•	•
FT 50 RH	Proximity switch with background suppression	300 mm	1000 Hz	•	•	•	•	•	•	•
FT 50 IH	Proximity switch with background suppression	600 mm	800 Hz	•	•	•	•	•	•	•
FR 50 RL	Retro-reflective sensor	12 m	2500 Hz	•	•	•	•	•	•	•
FR 50 R	Retro-reflective sensor	5,5 m	1000 Hz	•	•	•	•	•	•	•
FS/FE 50	Through-beam sensor	15 m	1000 Hz	•	•	•	•	•	•	•

F 88 Series

Simple and universal fixing possibilities (fixing hole and dovetail) make use and installation of the F 88 child's play. The varied hole pattern makes assembly compatible with many sensors. The F 88 series is also attractive due to its excellent performance capacities.

- Robust plastic housing
- PNP/NPN or relay output
- DC versions with plug, AC-/DC versions with terminal bar M16 x 1.5 mm
- AC-/DC versions with relay output, switching frequency 25 Hz and time function
- Background suppression



H 88 x W 26 x D 54 mm

Product	Function	Range	Switching frequency	AC	DC	LED	PNP	NPN	N.O./N.C.
FT 88 RH	Proximity switch with background suppression	700 mm	250 Hz	•	•	red	•	•	•
FT 88 IH	Proximity switch with background suppression	2 m	250 Hz	•	•	IR	•	•	•
FT 88 R	Proximity switch	2 m	125 Hz	•	•	red	•	•	•
FR 88 R	Retro-reflective sensor	12 m	1000 Hz	•	•	red	•	•	•
FS/FE 88 R	Through-beam sensor	65 m	1000 Hz	•	•	red	•	•	•

Cylindrical sensors

With an external diameter from 4 to 30 mm and the most varied functions, our cylindrical sensors meet user requirements above all in those cases where cubic and rectangular shapes prove to be unsuitable. All principles of function and types of light are available.

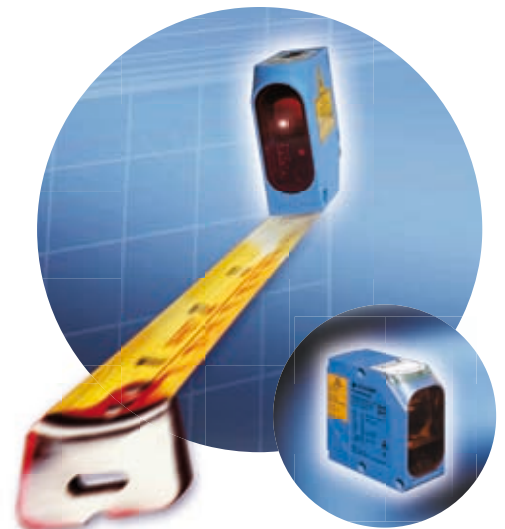
- Robust, nickel-plated brass housing
- Reliable pot setting
- Simple installation due to drilling of core holes
- Axial or radial light emission



Product	Function	Range	Switching frequency	Red light	PNP	NPN	N.O.	N.C.	Connector	Cable
FM 04/05	Proximity switch	50 mm	200 Hz		•	•	•		•	•
FT 12 R	Proximity switch	300 mm	1000 Hz	•	•	•	•	•	•	•
FMS 18 B/30 B	Proximity switch	400 mm/ 1000 mm	1000 Hz		•	•	•		•	•
FT 18 R	Proximity switch	600 mm	1000 Hz	•	•	•	•	•	•	•
FT 12 RH	Proximity switch with background suppression	60 mm	1000 Hz	•	•		•	•	•	
FMH 18	Proximity switch with background suppression	120 mm	600 Hz	•	•		•	•	•	•
FR 12 R	Retro-reflective sensor	1,5 m	1000 Hz	•	•	•	•		•	•
FS/FE 12 RL	Through-beam sensor for detection of small parts	5 m	10.000 Hz	•	•	•	•		•	
FS/FE 18 RL	Through-beam sensor for detection of small parts	50 m	10.000 Hz	•	•	•	•		•	
FR 18 R	Retro-reflective sensor	2 m	1000 Hz	•	•	•	•		•	•
FS/FE 12 R	Through-beam sensor	4 m	1000 Hz	•	•	•	•		•	•
FS/FE 18 R	Through-beam sensor	20 m	1000 Hz	•	•	•	•	•	•	•

Distance measurement

SensoPart covers the complete measuring range from several millimetres to very large distances (metres) thanks to a wide range of sensors. Different technical solutions enable utmost measuring accuracy from the mm-range up to 250 m.



Ask us for our current brochure.



IO link versions on request

Product	Working range	Resolution	Reproducibility	Outputs
FT 20 RA	20 - 80 mm	0,5 mm		1x PNP, analogue output 0 - 10V
FT 50 RLA -20/-40	40 - 60 mm / 45 - 85 mm	0,04 mm / 0,007 mm		Analogue output 0 - 10V
FT 50 RLA 70/-220	30 - 100 mm / 80 - 300 mm	0,1 % of measuring range/0,3 mm		2 x PNP, analogue output 4 ... 20 mA, RS 485
FT 80 RLA -500	250 - 750 mm	0,5 mm		2 x PNP, analogue output 4 ... 20 mA, RS 485
FT 90 ILA	0,5 - 10 mm		+/- 4 mm	RS 422, SSI, 4 ... 20 mA
FT 91 ILA	0,5 - 6 m		+/- 5 mm	RS 422, SSI, 4 ... 20 mA
FT 92 ILA *	0,2 - 6 m		+/- 10 mm / +/- 15 mm	2 x PNP, analogue output 4 ... 20 mA
FR 85	0 - 6 m		+/- 100 mm	2 x PNP, RS 485
FR 90 ILA	0,5 - 250 m (on reflector)		+/- 2 mm	2 x PNP, RS 422, SSI
FR 91 ILA	0,5 - 50 m (on reflector)		+/- 5 mm	2 x PNP, RS 422, SSI
FR 92 ILA	0,2 - 30 m on reflector)		+/- 5 mm / +/- 10 mm	2 x PNP, analogue output 4 ... 20 mA

* Available as FT 92 IL without analogue output.

Vision sensors & systems

Whether the task involves position monitoring, reading barcodes and data matrix codes or accurately detecting colour: the FA45 vision sensor is the solution for a wide range of applications which were previously impossible without complex and expensive image processing systems. Foolproof, reliable and economic, the FA45 is a pre-configured vision sensor adapted to the respective application, which does not require time-consuming training.

- “Plug and play“ without experience in image processing
- Miniaturisation of dimensions with built-in intelligence
- Reliable even in extreme ambient conditions
- and all that at an unbeatable price ...



For more demanding applications, we offer our EYESIGHT image processing solution. Based on the same hardware platform, EYESIGHT offers all the advantages of the FA45 vision sensor and a full range of lenses, lighting and connectivity. The intuitive development environment includes every necessary function and assists you in the programming of demanding solutions.

Product	Configuration
FA 45 300/-30I OB	Vision sensor object detection
FA 45 300 CR	Vision sensor code reading
FA 45 300 CO	Vision sensor colour detection
FA 45 300 EB	Vision system Eyesight



Further information on FA45 and EYESIGHT can be found in the respective brochures.

Colour, contrast & mark detection

Whilst conventional colour sensors need three superimposed primary colours for detection purposes, our FT 50 C and FT 20 WT sensors operate with white light and offer the right solution for every application: the FT50 C is thus available e.g. with 3 signal outputs or just one signal output with control cables and a bus-compatible RS 485 interface. The FL 64-I-C colour sensor is a DIN rail sensor with a fibre optic connection. It is simply clicked onto a DIN rail. The fibre optic head with a diameter of 6 mm can detect colour reliably even in cramped conditions.

For contrast detection, we have the sensors FT 82, FT 20 RL and FT 20 WT.

- Adjustable colour tolerance
- High distance tolerance
- Scanning function
- Teach-in technology
- FL 64-I-C with fibre-optic connection



IO link versions on request



Product	Range	Colour sensor	Contrast sensor	Switching frequency	PNP	NPN	N.O.	N.C	Connector	Cable
FT 82 RG	9 mm + 18 mm		•	10.000 Hz	•	•			•	•
FL 64-I-C	5 - 10 mm	•		550 Hz	•				•	
FL 64 RG	50 mm		•	5.000 Hz	•	•			•	•
FT 50 C	12 - 32 mm	•		500 Hz	•				•	
FT 50 C...S1	12 - 32 mm	•		500 Hz	•	•	•	•	•	
FT 20 RL	40 - 150 mm		•	4.000 Hz	•	•	•	•	•	•
FT 20 WT	17 mm		•	5.000 Hz	•	•	•	•	•	•

Sensors for fibre-optics

Systems using fibre-optics are given preference in applications with limited installation space. Combined with the right fibre-optic, our sensors provide the perfect solution even in harsh environments and high ambient temperatures.

The **FL 70 R-D** is our high-end sensor for fibre-optics with a 4 digit display. It is characterised by simple settings and many additional functions, e.g. fine adjustment of the switch point, inversion of the switch output, adjustment of accuracy and speed, window programming, time functions and tamper-proof protection. The display is always clearly visible thanks to a 180° rotatable screen.

FL 70 R sensor is also available with an analogue output as FL 70 RA-D, or without a display – for simpler applications.

For particularly long switching distances or harsh environments, we recommend our cylindrical sensors FMS 18 und FMS 30 for use with particularly robust glass fibre-optics.



Product	Max. scanning range range (dep. on fiber optic)	Max. working range range dep. on fiber optic)	Switching frequency	Output		Display	Connection		Size
				NPN	PNP		plug	cable	
FMS 18-U	160 mm	700 mm	5.000 Hz	•	•		•	•	M18 x 1 x 79
FMS 30-U	800 mm	4800 mm	5.000 Hz	•	•		•	•	M30 x 1 x 79
FL 70 R	300 mm	2.000 mm	1.500 Hz	•	•		•	•	10 x 25 x 84
FL 70 R-D	300 mm	2.000 mm	8.000 Hz	•	•	•	•		10 x 25 x 84
FL 70 RA-D	300 mm	2.000 mm	8.000 Hz	•	•	•		•	10 x 25 x 84
FL 20 R	80 mm	200 mm	1.000 Hz	•	•		•	•	12 x 32 x 20

Fibre-optics

Fibre-optic sensors are only ever as good as the combination of fibre-optic and sensor. The right combination is decisive for optimum function.

You can find the right fibre-optic for your application in our brochure "Fibre-optics & Fibre-optic sensors".



Fork sensors

The main feature of our fork sensors is their reliability with utmost accuracy. Even very small objects are reliably detected. High switching frequencies enable the detection of moving objects. All versions have a plug connection and use visible red light.

Metal versions:

- Simple and robust design
- Reversible N.O./N.C.
- 3-pin connection

Plastic fork sensors:





- With NPN or PNP, 3- or 4-pin connections
- Dynamic teach-in
- Setting to moving objects is possible
- Output signal LEDs visible from all sides
- Numerous mounting possibilities (e.g. dovetail)

Metal version



Plastic version

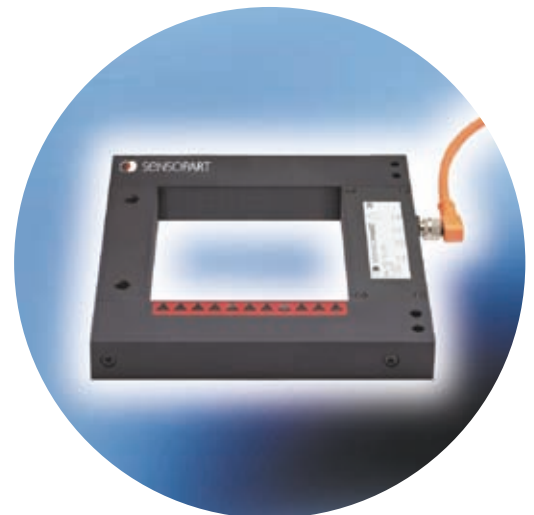


Fork width	Metal version	Switching frequency	Plastic version	Switching frequency
5 mm	FGL 5 R-PSM3	3000 Hz		
10 mm	FGL 10 R-PSM3	3000 Hz		
20 mm	FGL 20 R-PSM3	1500 Hz		
30 mm	FGL 30 R-PSM3	1500 Hz	 FGL 30-RK-30 or FGL 30-IK-30	2000 Hz
50 mm	FGL 50 R-PSM3	1500 Hz	 FGL 50-RK-50 or FGL 50-IK-50	2000 Hz
80 mm	FGL 80 R-PSM3	1500 Hz	 FGL 80-RK-50 or FGL 80-IK-50	2000 Hz
120 mm	FGL 120 R-PSM3	1500 Hz	 FGL 120-RK-50 or FGL 120-IK-50	2000 Hz
180 mm	FGL 180 R-PSM3	1500 Hz		
220 mm	FGL 220 R-PSM3	1500 Hz		

Optical Windows

A decisive feature for the reliable detection of small objects is the resolution of the beam grid and its time response. The resolution of our optical windows guarantees a reliable detection of parts as small as 0.8 mm. Deadlocks can be avoided thanks to the dynamic signal evaluation and parts can be detected, e.g. through transparent tubes. The adjustable length of the output signal (from 10 to 300 ms) enables a maximum degree of compatibility with your PLC.

- High resolution
- Dynamic signal evaluation
- Infrared light
- Available window sizes: 40, 80, 120 mm



Product	Window size	Switching frequency	Red light	PNP	NPN	N.O.	N.C.	Connector
FG 40 I-PSM3	40 x 80 mm ²	100 Hz		•		•		M8 3-pin
FG 80 I-PSM3	80 x 80 mm ²	100 Hz		•		•		M8 3-pin
FG 120 I-PSM3	120 x 80 mm ²	100 Hz		•		•		M8 3-pin

FCP Measuring Light Grid

The light grids of the FCP series are photoelectric multi-beam devices suitable for detection, measurement and counting of objects with different shapes and dimensions. Models with 100, 150 or 300 mm controlled height, 5 or 7 mm resolution and 150 -2100 mm operating distance, are available.

The electronics is completely integrated inside the grids and therefore no external control is necessary. Moreover, the receiving and emitting units are synchronised via cable, guaranteeing the best immunity against electromagnetic and optic disturbances.



Product	Working range	Height measuring window	Number of beams	Resolution	Outputs
FCP 100-15-2100-PSU-L	150 ... 2100 mm	100	32	5 mm	1 x PNP, 1 x analogue 0 - 10V
FCP 100-17-2100-PSU-L	150 ... 2100 mm	100	16	7 mm	1 x PNP, 1 x analogue 0 - 10V
FCP 150-15-2100-PSU-L	150 ... 2100 mm	150	48	5 mm	1 x PNP, 1 x analogue 0 - 10V
FCP 150-17-2100-PSU-L	150 ... 2100 mm	150	24	7 mm	1 x PNP, 1 x analogue 0 - 10V
FCP 300-17-2100-PSU-L	150 ... 2100 mm	300	48	7 mm	1 x PNP, 1 x analogue 0 - 10V

SmartPlug



Brain food for your sensor: Adapted between the sensor and connection cable, the SmartPlug fulfils functions which would otherwise have to be programmed via a PLC. There is a choice of 4 basic versions which are programmed via external teach-in or you can opt for the new all-in-one MFU SmartPlug which is already programmed with all functions. You can then adjust them with a PDA and an interface converter (accessory SensoPart) using the integrated infrared interface.



- Suitable for sensors of **all** well-known manufacturers
- Suitable for M12 connections (also for M8 using adapter)
- All versions cascable, e.g. counter and timer combined
- For pulse stretching or as signal amplifier up to 400 mA
- Versions for manual or teach-in programming
- Maximum switching frequency 10KHz

Ø 20 mm x 60 mm



Product	Counter	Inverter	Timer	Frequency controller	PNP	NPN
MFU 12 N4 P/PC 	•	•	•	•		•
MFU 12 P4 P/PC 	•	•	•	•	•	
MFC 12 NN4	•					•
MFC 12 PP4	•				•	
MFF 12 NN4				•	•	
MFF 12 PP4				•	•	
MFI 12 NP4		•				•
MFI 12 PN4		•			•	
MFT 12 NN4			•			•
MFT 12 PP4			•		•	

Anti-collision sensor FR 85

RailPilot, optimum collision avoidance for electric suspension tracks – a SensoPart concept which reacts independently of the shape, colour and size of the suspended vehicle whether on bends, straight sections or slopes and is not affected by the surroundings and thus guarantees a reliable function.

- Specially designed for electric suspension tracks
- Non-contact, non-wearing distance measurement
- Switching points for braking and stopping order
- Adjustable speed possible
- Excellent protection from interference



H85 x W 115 (145 over all) x D 80 mm



Ultrasonic sensors

All the ultrasonic sensors from the U 12, U 18 and U 30 series are cylindrical sensors with a robust metal housing. Working ranges of up to 6 m can be achieved. With the miniature U20 series, we achieve scanning ranges of up to 700 mm. These sensors are very easy to programme via teach-in.

Type	Housing	Working range (mm)	Output
U 12, U 18 and U 30	cylindrical	250, 300, 400, 800, 1300, 3400, 6000	PNP, NPN, analogue
U 20	cubicle	150, 240 and 700	PNP, NPN, analogue



Inductive sensors

SensoPart offers a wide range of different inductive sensors. Besides standard sensors, you can find inductive sensors with 3 times the switching distance. This increased switching distance enables considerably greater availability in harsh industrial applications.

Type	Housing	Working range (mm)	Output
Standard	cylindrical	D3, D4, M4, M5, M8, M12, M18, M30	PNP, NPN
Standard	cubicle	5x5, 8x8, 40x40 mm	PNP, NPN
Increased switching distance	cylindrical	D4, D6,5; M8, M12, M18, M30	PNP, NPN
Solid metal	cylindrical	M12, M18 and M30	PNP, NPN
Analogue	cylindrical	M12, M18 and M30	analogue



Capacitive sensors

All capacitive sensors are fitted in a robust cylindrical housing. KL sensors have a non-flush sensor head in contrast to the KD version. This means that the sensor head emits a spherical electric field directly from the sides enabling considerably greater measuring distances.

Type	Housing	Working range (mm)	Output
KD and KL	cylindrical	D6,5; M8, M12, M18, M30	PNP, NPN



From our product range

- » Anti-collision sensors
- » Capacitive sensors
- » Colour sensors
- » Contrast sensors
- » Distance sensors
- » Fibre optics
- » Inductive sensors
- » Laser sensors
- » Line cameras
- » Miniature sensors
- » Optical windows
- » Proximity switches
- » Retroreflective sensors
- » SmartPlug
- » Slot sensors
- » Through-beam sensors
- » Ultrasonic sensors
- » Vision sensors

Our concept: Speed combined with innovation, quality and customer awareness



Since the day we were founded, our investments in research and development have been way above average for this branch, and have laid the foundation for customer satisfaction and continuous growth. Today SensoPart is one of the leading suppliers of industrial sensors – including **distance sensors, vision sensors, laser sensors and colour sensors.** Recognition by independent experts is prominent evidence of our work. Indeed SensoPart has received numerous distinctions and prizes over the past years. We have been rewarded for the clear goal behind of our innovations – achieving customer satisfaction with convincing performance data and clever ideas.

- » Dr Rudolph-Eberle Prize for Innovation 2001
- » Baden Württemberg Sponsorship award for Young Companies 2002
- » German Sensor Application Prize 2003
- » German Sensor Application Prize 2004
- » Dr Rudolph-Eberle Prize for Innovation 2006
- » Top 100 Prize for Innovation 2008



SensoPart
Industriesensorik GmbH
Nägelseestraße 16
D-79288 Gottenheim
Tel. +49 (0) 7665 94769-0
Fax +49 (0) 7665 94769-765
www.sensopart.de

SensoPart France SARL
11, rue Albert Einstein
Espace Mercure
F-77420 Champs - Marne la Vallée
Tél. +33 (0) 1 64 73 00 61
Fax +33 (0) 1 64 73 10 87
www.sensopart.fr

SensoPart UK Limited
G8 The Arch
48 - 52 Floodgate Street
Birmingham B5-5SL
Tel. +44 (0) 121 772 51 04
Fax +44 (0) 121 772 51 26
www.sensopart.com

SensoPart Inc.
1690 Woodlands Drive
Suite 224
Maumee, OH 43537, USA
Tel. +1 866 282 - 7610
Fax +1 419 897 - 7991
www.sensopart.com