

Frame through-beam sensors



Features

- Wide range of sizes: passage sizes from 25 x 23 mm to 300 x 397.5 mm
- Metal housings
- Integrated evaluation unit
- Connection by means of S8 connector
- Degree of protection IP 67
- Adjustable sensitivity

Benefits

- Static / dynamic operating principle (switchable)
- Detection of metallic and non-metallic parts
- Extremely high resolution (parts from 0.7 mm diameter)
- Short response time
- Removable crossbar
- Easy installation

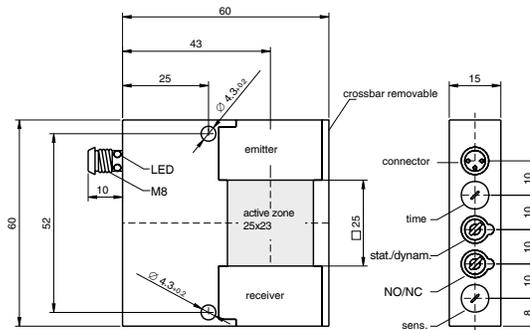


Frame through-beam sensors

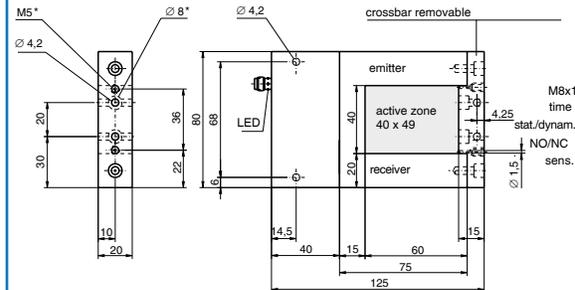
Contrinex photoelectric frame sensors are available in various sizes, and consequently suitable for a large range of applications. They work according to the principle of through-beam sensors. A considerable number of emitters and receivers respectively are located on opposite sides of the frame, so as to cover the whole passage with a light curtain. The devices are used for the detection of small free-moving parts, e.g. for finished parts at the outlet of stamping machines or presses. They feature very robust, compact and universally mountable housings.

The devices can be switched between two operating modes, dynamic and static. In the former, only those parts that move through the active zone at a certain minimum speed are detected, whereas those that are permanently within the active zone, or that move slowly, are not. On the other hand, when in the static operating mode, all parts in the active zone, whether moving or not, are detected. Consequently, the length measurement of parts moving at a known speed through the active zone is possible. In addition, slowly falling perforated parts do not give rise to multiple pulses.

25 x 23



40 x 49



* 6 deep

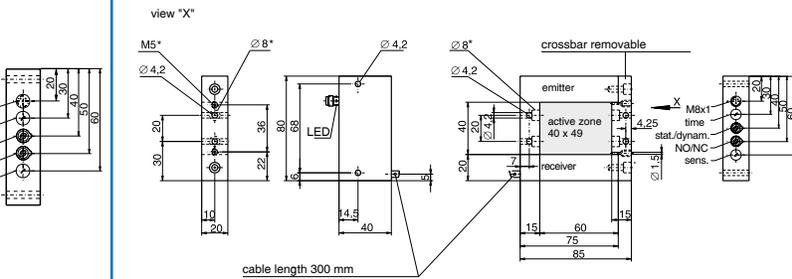
Technical Data		
(at +20 °C / 68 °F, 24 VDC)		
Operating principle	dynamic-static **	dynamic-static **
Emitted light	IR 880 nm, clocked	IR 880 nm, clocked
Active zone	25 x 23 mm	40 x 49 mm
Supply voltage range	10 ... 35 VDC	18 ... 35 VDC
Output current	200 mA	200 mA
Short-circuit protection	yes	yes
No-load supply current	< 25 mA	< 30 mA
Voltage drop	< 2.0 V	< 2.5 V
Response / release time	0.1 ms / 0.1 ... 150 ms	0.1 ms / 0.1 ... 150 ms
Pulse stretching	0.1 ... 150 ms	0.1 ... 150 ms
Resolution	Ø 0.7 mm (dynamic) / Ø 1 mm (static)	Ø 1 mm
Ambient temperature range	0 ... +60 °C (+32 ... 140 °F)	0 ... +60 °C (+32 ... 140 °F)
Max. ambient light	30 kLux	20 kLux
Degree of protection	IP 67	IP 67
Housing material	aluminum, black anodized	aluminum, black anodized
Types (bold: preferred types)		
	part reference	part reference
NPN, N.O. / N.C. switchable	LCS-0025-106	LCS-0040-106
PNP, N.O. / N.C. switchable	LCS-0025-105	LCS-0040-105
Connector type	S8	S8

** switchable

40 x 49

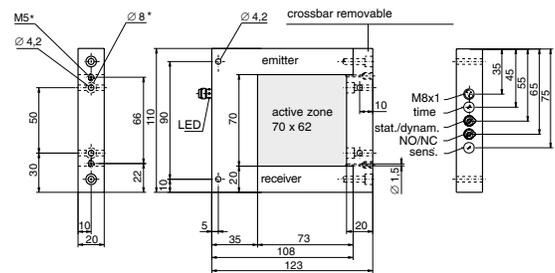


with amplifier



* 6 deep

70 x 62



* 6 deep

dynamic-static **

IR 880 nm, clocked

40 x 49 mm

18 ... 35 VDC

200 mA

yes

< 30 mA

< 2.5 V

0.1 ms / 0.1 ... 150 ms

0.1 ... 150 ms

Ø 1 mm

0 ... +60 °C (+32 ... 140 °F)

20 kLux

IP 67

aluminum, black anodized

part reference

LCS-0040-106-530

LCS-0040-105-530

S8

dynamic-static **

IR 880 nm, clocked

70 x 62 mm

18 ... 35 VDC

200 mA

yes

< 30 mA

< 2.5 V

0.1 ms / 0.1 ... 150 ms

0.1 ... 150 ms

Ø 2 mm

0 ... +60 °C (+32 ... 140 °F)

20 kLux

IP 67

aluminum, black anodized

part reference

LCS-0070-106

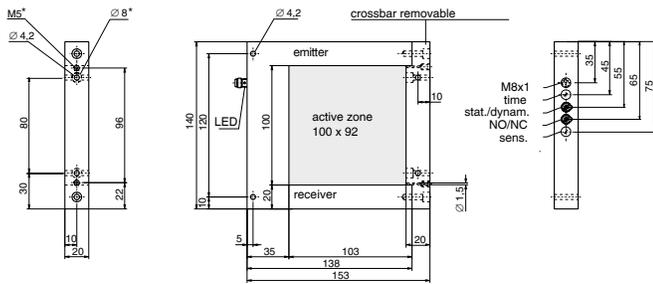
LCS-0070-105

S8

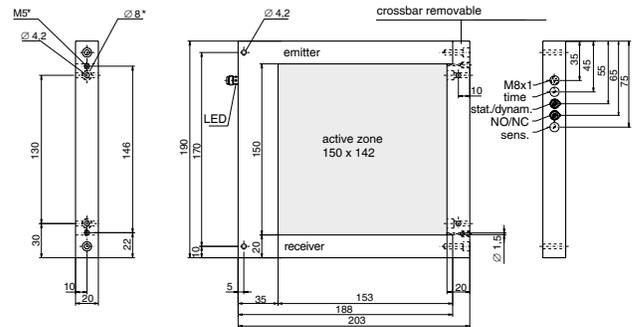
** switchable

100 x 92

150 x 142



* 6 deep



* 6 deep

dynamic-static **

IR 880 nm, clocked

100 x 92 mm

18 ... 35 VDC

200 mA

yes

< 35 mA

< 2.5 V

0.1 ms / 0.1 ... 150 ms

0.1 ... 150 ms

Ø 2.5 mm (dynamic) / Ø 3 mm (static)

0 ... +60 °C (+32 ... 140 °F)

20 kLux

IP 67

aluminum, black anodized

part reference

LCS-0100-106

LCS-0100-105

S8

dynamic-static **

IR 880 nm, clocked

150 x 142 mm

18 ... 35 VDC

200 mA

yes

< 45 mA

< 2.5 V

0.1 ms / 0.1 ... 150 ms

0.1 ... 150 ms

Ø 3 mm (dynamic) / Ø 5 mm (static)

0 ... +60 °C (+32 ... 140 °F)

20 kLux

IP 67

aluminum, black anodized

part reference

LCS-0150-106

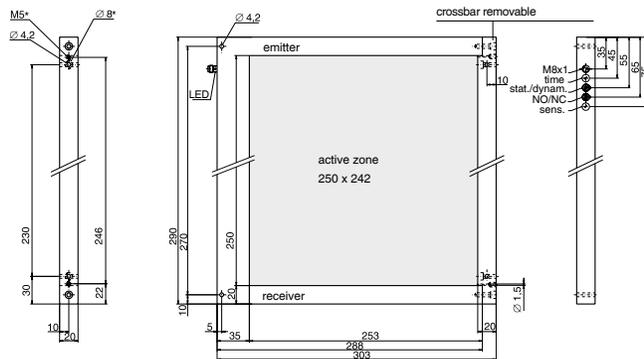
LCS-0150-105

S8

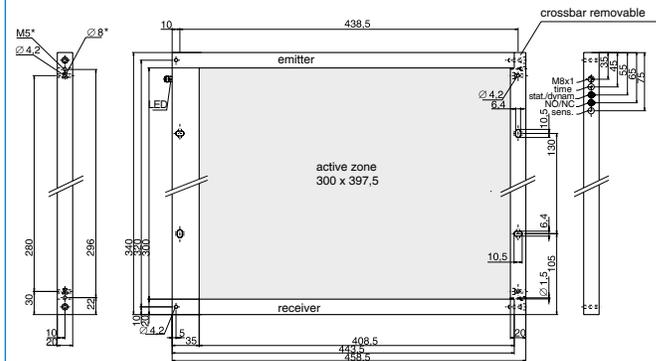
** switchable

250 x 242

300 x 397.5



* 6 deep



* 6 deep

dynamic-static **

IR 880 nm, clocked

250 x 242 mm

22 ... 26 VDC

200 mA

yes

< 45 mA

< 2.5 V

0.1 ms / 0.1 ... 150 ms

0.1 ... 150 ms

Ø 5 mm (dynamic) / Ø 8 mm (static)

0 ... +60 °C (+32 ... 140 °F)

10 kLux

IP 67

aluminum, black anodized

part reference

LCS-0250-106

LCS-0250-105

S8

dynamic-static **

IR 880 nm, clocked

300 x 397.5 mm

22 ... 26 VDC

200 mA

yes

< 50 mA

< 2.5 V

0.1 ms / 0.1 ... 150 ms

0.1 ... 150 ms

Ø 5 mm (dynamic) / Ø 10 mm (static)

0 ... +60 °C (+32 ... 140 °F)

8 kLux

IP 67

aluminum, black anodized

part reference

LCS-0300-106

LCS-0300-105

S8

Europe

Austria Belgium Croatia Czech Republic
Denmark Finland France Germany Great Britain
Greece Hungary Ireland Italy Luxembourg
Netherlands Norway Poland Portugal Romania
Russian Federation Slovakia Slovenia Spain
Sweden Switzerland Turkey

Africa

South Africa

The Americas

Argentina Brazil Canada Chile Colombia
Mexico United States Venezuela

Asia

China India Indonesia Japan Korea Malaysia
Pakistan Philippines Singapore Taiwan
Thailand Vietnam

Australasia

Australia New Zealand

Middle East

Iran Israel Syria United Arab Emirates



Contrinex

Contrinex has been manufacturing sensors for industrial use since 1972, and today employs over 500 people.

Products

The strength of Contrinex lies in its wide range of highly innovative sensors with special characteristics:

- very small sizes
- very long operating distances
- resistance to extreme environmental conditions (extreme pressure, temperatures etc.)
- all-metal housings

Quality

The high quality of Contrinex products is guaranteed by a well-organized ISO 9001:2000 certified management system.

Customer service

Thanks to a worldwide presence, Contrinex ensures easy contact between customers and the manufacturer.

Catalog

Please consult our catalog for clear and precise information concerning Contrinex's wide range of products:

- [Inductive, Photoelectric and Ultrasonic Proximity Switches](#)



These devices **must not be used** in applications where the **safety of people** is dependent on their functioning. Terms of delivery and rights to change design reserved.

Contrinex Inc.

Your sales agent:

