



Top product features!

- Fail-safe inductive sensors do not require a special key or coded magnet for a target, reducing installation time and alignment issues
- High tolerance to misalignment and nuisance tripping
- Multi-function safety relay compatible with industry-standard safety devices
- Self-monitoring circuit verifies that the sensor is functioning correctly
- Rated up to SIL 2 or SIL 3 according to IEC 61508

Non-contact, fail-safe inductive sensors for safety applications



ifm's non-contact fail-safe sensors incorporate inductive technology that detects standard metal target material such as stainless or mild steel. Coded magnets or mechanical keys are not required as targets, greatly reducing installation time and avoiding misalignment issues and nuisance tripping. The sensors continuously monitor the sensing window for target position and dwell time.

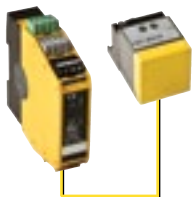
ifm's non-contact fail-safe sensors may be used with any standard safety relay, safety PLC and bus system.

Fail-Safe Sensors for Series Connection (Gx5 Series)

Up to 10 non-contact, fail-safe sensors can be connected in a series with the ifm clocked input versions. Ideal for monitoring multiple stations, such as robotics cells, the fail-safe sensors will provide an output if one point along the chain is stopped. Using ifm's quick disconnect T-piece connectors, wiring is greatly reduced and simplified.

Single connection

Safety relay Safety sensor



Series connection (up to 10 sensors)

Safety relay Safety sensors



ifm's fail-safe sensors are a better alternative



Challenge: 2-piece interlocking mechanical switch is prone to misalignment and time-consuming setup.



ifm solution: Setup is fast. ifm inductive non-contact fail-safe sensors do not require coded magnets or keys.

ifm's safety relays are ideal for connecting electronic and mechanical fail-safe sensors / switches and for use as two-hand control.

IO-Link

Position Sensors

Motion Control

Vision Sensors

Company

IO-Link

Inductive

Capacitive

Cylinder / valve position

Photoelectrics / lasers / fiber optics

Distance / Application specific

Ultrasonic

Encoders / Speed monitors

2D / 3D inspection



1 - 5



6 - 21



22 - 55



56 - 61



62 - 71



72 - 111



112 - 117



118 - 119



120 - 127



128 - 143



Product + accessory selector



Housing	Dimensions [mm]	Enable Zone [mm]	Approval	Response Time on Removal	Response Time on Approach	Protection Rating	Housing Material	Part No.	List Price (1-pc.)
Non-contact, fail-safe inductive sensors for safety applications • 2 x PNP output (OSSD)									
	M12 x 70	0.5...4 nf	SIL 2, PL d	≤ 1 ms	≤ 1 ms	IP67	316 S.S., PBT	GF711S	\$176.00
	M18 x 71	1...5 f	SIL 2, PL d	≤ 1 ms	≤ 1 ms	IP67	Plated brass, PBT	GG712S	\$181.00
	M18 x 71	1...8 nf	SIL 2, PL d	≤ 1 ms	≤ 1 ms	IP67	316 S.S., PBT	GG711S	\$181.00
	M30 x 70	1...10 f	SIL 2, PL d	≤ 10 ms	≤ 1 ms	IP67	Plated brass / PBT	GI712S	\$192.00
	M30 x 70	1...15 nf	SIL 2, PL d	≤ 10 ms	≤ 1 ms	IP67	316 S.S., PBT	GI711S	\$188.00
	M30 x 80	6...12 nf	SIL 3, PL e	< 50 ms	< 200 ms	IP69K	316 S.S., PBT	GI701S	\$188.00
	40 x 40 x 66	10...15 nf	SIL 3, PL e	< 50 ms	< 200 ms	IP67	PPE, diecast zinc	GM701S	\$236.00
	40 x 40 x 66	4...20 nf	SIL 3, PL e	< 50 ms	< 200 ms	IP67	PPE, diecast zinc	GM705S	\$236.00

Fail-Safe sensors for series connection* – for connection to ifm safety relays or Safety at Work

	M18 x 91	1...4 f	SIL 3, PL e	< 20 ms	< 200 ms	IP69K	Plated brass, PBT	GG507S	\$236.00
	M18 x 91	3...6 nf	SIL 3, PL e	< 20 ms	< 200 ms	IP69K	316 S.S., PBT	GG505S	\$236.00
	M30 x 80	6...12 nf	SIL 3, PL e	< 20 ms	< 200 ms	IP69K	316 S.S. / PEEK	GI505S	\$236.00
	40 x 40 x 66	10...15 nf	SIL 3, PL e	< 20 ms	< 200 ms	IP67	PPE, diecast zinc	GM504S	\$229.00
	40 x 40 x 66	10...20 nf	SIL 3, PL e	< 20 ms	< 200 ms	IP67	PPE, diecast zinc	GM505S	\$236.00

* Requires safety splitter E11569 for series connection.

Accessories

Type	Safety Outputs	Non-safe Outputs	Part No.	List Price
	2 x relay (N.O.)	1 x PNP	G1501S	\$181.00
	2 x PNP	1 x PNP	G1503S	\$165.00
	3 x relay (N.O.)	1 x relay (N.O.)	G1502S	\$292.00
	2 x relay (N.O.) with time delay	1 x relay (N.C.) 1 x PNP with time delay		

Cordsets

Type	Description	Part No.	List Price (1-pc.)
	M12 Micro DC (4-pin) 2 m, PUR	EVC001	\$11.00
	M12 Micro DC (4-pin) 5 m, PUR	EVC002	\$15.00
	M12 Micro DC (4-pin) 2 m, PUR	EVC004	\$11.00
	M12 Micro DC (4-pin) 5 m, PUR	EVC005	\$15.00

	AS-i ClassicLine module for Gx7 Series	AC507S	\$272.00
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Want to learn more about safety approvals, visit www.ifm.com/us

	Safety splitter (see cable section for M12 patchcords)	E11569	\$26.00
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Technical Specs

Operating voltage: 19.2...30 VDC
 Number of wires: 4-wire
 Connector: M12
 Operating temperature: -13...158 °F (-25...70 °C)

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Safety Technology

Process Sensors

Industrial Networks

ID Systems

Machine Condition

Power Supplies

Wiring Technology

Safety products

Pressure

Flow

Level

Temperature

AS-i network

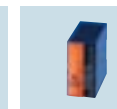
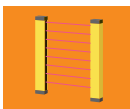
Safety systems

RF identification systems

Diagnostic systems

Power supplies

Cordset solutions



144 - 155

156 - 175

176 - 191

192 - 207

208 - 225

226 - 239

240 - 251

252 - 253

254 - 259

260 - 263

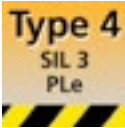
264 - 277



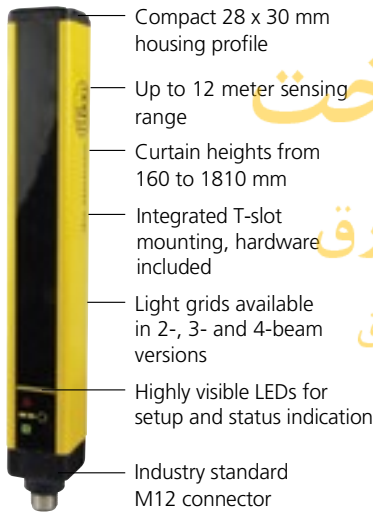
Top product features!

- Light curtains designed for finger protection – 14 mm resolution
- Compact 28 x 30 mm housing profile for less intrusive mounting
- Up to 6 meter sensing range with no software required
- Light curtains offer protected heights of 160 mm to 1810 mm in intervals of 150 mm
- You don't have to compromise the safety level of your machine because of cost... competitive list prices set a new benchmark for value!

Safety light curtains help to protect plant personnel



ifm's Type 4 safety light curtains provide an optical solution for protecting plant personnel in unsafe work areas. ifm Type 4 light curtains provide continuous protection, tighter effective aperture range, redundant circuitry and the highest maximum achievable safety level requirements.



Why choose ifm for your safety products?

- ifm has taken the complexity out of selecting light curtains by offering only Type 4 light curtains.
- Not only does ifm provide the maximum achievable safety for a light curtain, ifm also offers the optimal resolution models for finger, hand and body protection applications.
- ifm's pricing enables Type 4 light curtains to be used in all applications.
- Fewer variations that cover a broad range of applications allows for standardizing on a smaller number of light curtain models.
- ifm has stock available for immediate delivery.

ifm safety light curtains provide a multiple beam array of infrared light in front of a hazardous area. If any of the beams are blocked by a **finger** in the sensing field, the light curtain sends a signal to the machine to place it in a safe state.



Woodworking Power Saws

Operators are denied access to power saws any time the saws are in motion. Finger protection safety light curtains allow operators to work in close proximity to power saws without risk of injury.



Machine tool Hydraulic presses

Presses require large amounts of force and pose a serious safety hazard. ifm safety light curtains will halt the press if an operator gets near the dangerous area.



Assembly automation SMT (Surface Mount Technology) machine

Light curtains help protect an operator from the hazards associated with material positioning such as mechanical power presses.

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IO-Link

Company

IO-Link

Position Sensors

Inductive

Capacitive

Cylinder / valve position

Photoelectrics / lasers / fiber optics

Distance / Application specific

Ultrasonic

Motion Control

Encoders / Speed monitors

Vision Sensors

2D / 3D inspection



1 - 5



6 - 21



22 - 55



56 - 61



62 - 71



72 - 111



112 - 117



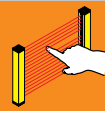
118 - 119



120 - 127




128 - 143





Product + accessory selector



Type 4 light curtains for finger protection

Type	Resolution (mm)	Protected Area Height (mm)	Protected Area Width (m)	Part No.	List Price
	14	160	6	OY001S	\$903.00
	14	310	6	OY002S	\$1,128.00
	14	460	6	OY003S	\$1,352.00
	14	610	6	OY004S	\$1,579.00
	14	760	6	OY005S	\$1,807.00
	14	910	6	OY006S	\$2,034.00
	14	1060	6	OY007S	\$2,265.00
	14	1210	6	OY008S	\$2,499.00
	14	1360	6	OY009S	\$2,723.00
	14	1510	6	OY010S	\$3,118.00
	14	1810	6	OY011S	\$3,738.00






M12 Micro DC cordsets for transmitters

Type	Description	Part No.	List Price
	5 m, 5-pin, PUR	EVC071	\$19.00
	10 m, 5-pin, PUR	EVC072	\$25.00
	5 m, 5-pin, PUR	EVC074	\$19.00
	10 m, 5-pin, PUR	EVC075	\$25.00



M12 Micro DC cordsets for receivers

Type	Description	Part No.	List Price
	5 m, 8-pin, PUR	E12166	\$54.00
	10 m, 8-pin, PUR	E12167	\$69.00
	5 m, 8-pin, PUR	E12168	\$54.00
	10 m, 8-pin, PUR	E12169	\$69.00

Optional Accessories

Type	Description	Part No.	List Price
	Rotatable brackets ± 7°, set of 4 (for light curtains ≤ 1060 mm)	EY3004	\$40.00
	Rotatable brackets ± 7°, set of 6 (for light curtains ≥ 1210 mm)	EY3005	\$55.00
	Clamping bracket ± 6°, set of 4	EY3013	\$45.00
	Rotatable bracket ± 90°, set of 4	EY3011	\$83.00
	Vibration damper for mounting, set of 4 pieces.	EY3001	\$41.00
	Vibration damper for mounting, set of 6 pieces.	EY3002	\$64.00
	Laser alignment tool	EY3099	\$261.00

Safety relays

Type	Safety Outputs	Non-safe Outputs	Part No.	List Price
	2 x relay (N.O.)	1 x PNP	G1501S	\$181.00
	2 x PNP	1 x PNP	G1503S	\$165.00
	3 x relay (N.O.) 2 x relay (N.O.) with time delay	1 x relay (N.O.) 1 x relay (N.C.) 1 x PNP with time delay	G1502S	\$292.00

Additional accessories see page 151.

Technical Specs

Operating voltage: 19.2...28.8 VDC
 Current rating: 2 x 400 mA
 Current consumption: Transmitter 42 mA, Receiver 83 mA
 Safety outputs (OSSDs): 2 x PNP
 Operating temperature: 14...131 °F (-10...55 °C)
 Protection: IP67
 Dimensions (W x D): 28 x 30 mm
 Connection: M12, Transmitter: 5-pin, Receiver: 8-pin
 Max. cable length: 100 m
 Safety category: Type 4 (IEC 61496-1) SIL 3 (IEC 61508) SILcl 3 (IEC 62061) PL d / PL e (EN ISO 13849-1)

The following pages include additional safety light curtain options.

Simple and comprehensive website

Data sheets, application examples, software downloads, virtual product demos... just one click away.

-  Place orders, tech support 800-441-8246
-  Visit our product catalog www.ifm.com/us
-  Shop for products online Easy ordering via eShop

Safety Technology

Process Sensors

Industrial Networks

ID Systems

Machine Condition

Power Supplies

Wiring Technology



144 - 155

156 - 175

176 - 191

192 - 207

208 - 225

226 - 239

240 - 251

252 - 253

254 - 259

260 - 263

264 - 277

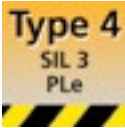


Hand protection

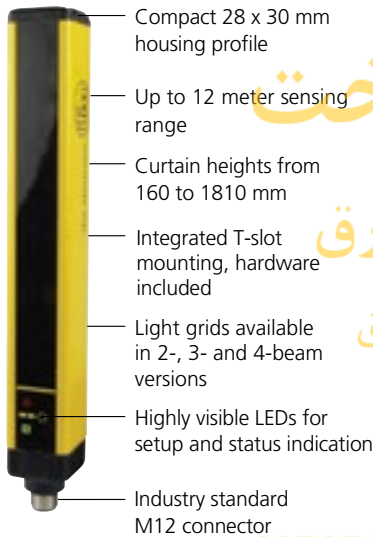
Top product features!

- Light curtains designed for hand protection – 30 mm resolution
- Highest level of safety protection without increasing cost – Type 4 curtains at a Type 2 price
- Up to 12 meter sensing range with no software required
- Light curtains offer protected heights of 160 mm to 1810 mm in intervals of 150 mm
- You don't have to compromise the safety level of your machine because of cost... competitive list prices set a new benchmark for value!

Safety light curtains help to protect plant personnel



ifm's Type 4 safety light curtains provide an optical solution for protecting plant personnel in unsafe work areas. ifm Type 4 light curtains provide continuous protection, tighter effective aperture range, redundant circuitry and the highest maximum achievable safety level requirements.



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- ifm's pricing enables Type 4 light curtains to be used in all applications.
- Fewer variations that cover a broad range of applications allows for standardizing on a smaller number of light curtain models.
- ifm has stock available for immediate delivery.

ifm safety light curtains provide a multiple beam array of infrared light in front of a hazardous area. If any of the beams are blocked by a hand in the sensing field, the light curtain sends a signal to the machine to place it in a safe state.



Vertical automated storage systems

If the operator reaches into the carousel prematurely or accidentally, ifm light curtains will stop the carousel from rotating to prevent injury.



Carton erecting

Carton machines can jam during the erecting process. Once the operator breaks the protective area of the safety light curtain, the machine stops to allow the operator to clear the jam.



Semi-automated assembly station

Line workers reach into a press to remove the assembly. The press is stopped when an operator reaches inside the machine and breaks the protective

field of the light curtain. When the operator has removed the assembly, the machine cycle is automatically restarted, and the light curtains resume operation.

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IO-Link

Company

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Position Sensors

Inductive

Capacitive

Cylinder / valve position

Photoelectrics / lasers / fiber optics

Distance / Application specific

Ultrasonic

Motion Control

Encoders / Speed monitors

Vision Sensors

2D / 3D inspection



1 - 5



6 - 21



22 - 55



56 - 61



62 - 71



72 - 111



112 - 117



118 - 119



120 - 127



128 - 143



Product + accessory selector

Type 4 light curtains for hand protection

Type	Resolution (mm)	Protected Area Height (mm)	Protected Area Width (m)	Part No.	List Price
	30	160	12	OY041S	\$746.00
	30	310	12	OY042S	\$898.00
	30	460	12	OY043S	\$1,027.00
	30	610	12	OY044S	\$1,176.00
	30	760	12	OY045S	\$1,318.00
	30	910	12	OY046S	\$1,460.00
	30	1060	12	OY047S	\$1,607.00
	30	1210	12	OY048S	\$1,783.00
	30	1360	12	OY049S	\$1,888.00
	30	1510	12	OY050S	\$2,155.00
	30	1810	12	OY454S	\$2,500.00

M12 Micro DC cordset for transmitter

Type	Description	Part No.	List Price
	5 m, 5-pin, PUR	EVC071	\$19.00
	10 m, 5-pin, PUR	EVC072	\$25.00
	5 m, 5-pin, PUR	EVC074	\$19.00
	10 m, 5-pin, PUR	EVC075	\$25.00

M12 Micro DC cordset for receiver

Type	Description	Part No.	List Price
	5 m, 8-pin, PUR	E12166	\$54.00
	10 m, 8-pin, PUR	E12167	\$69.00
	5 m, 8-pin, PUR	E12168	\$54.00
	10 m, 8-pin, PUR	E12169	\$69.00

Optional Accessories

Type	Description	Part No.	List Price
	Rotatable brackets ± 7°, set of 4 (for light curtains ≤ 1060 mm)	EY3004	\$40.00
	Rotatable brackets ± 7°, set of 6 (for light curtains ≥ 1210 mm)	EY3005	\$55.00
	Clamping bracket ± 6°, set of 4	EY3013	\$45.00
	Rotatable bracket ± 90°, set of 4	EY3011	\$83.00
	Vibration damper for mounting, set of 4 pieces.	EY3001	\$41.00
	Vibration damper for mounting, set of 6 pieces.	EY3002	\$64.00
	Laser alignment tool	EY3099	\$261.00

Safety relays

Type	Safety Outputs	Non-safe Outputs	Part No.	List Price
	2 x relay (N.O.)	1 x PNP	G1501S	\$181.00
	2 x PNP	1 x PNP	G1503S	\$165.00
	3 x relay (N.O.) 2 x relay (N.O.) with time delay	1 x relay (N.O.) 1 x relay (N.C.) 1 x PNP with time delay	G1502S	\$292.00

Floor stands for light curtains

Type	Description	Part No.	List Price
	For safety light curtains ≤ 760 mm. Requires base unit EY2005.	EY2001	\$299.00
	For safety light curtains ≤ 1060 mm. Requires base unit EY2005.	EY2002	\$330.00
	For safety light curtains ≤ 1360 mm. Requires base unit EY2005.	EY2003	\$394.00
	For safety light curtains ≤ 1510 mm. Requires base unit EY2005.	EY2004	\$693.00
	Required spring base unit for floor mounting	EY2005	\$204.00

Additional accessories see page 151.

Technical Specs

Operating voltage: 19.2...28.8 VDC
 Current rating: 2 x 400 mA
 Current consumption: Transmitter 42 mA, Receiver 83 mA
 Safety outputs (OSSDs): 2 x PNP
 Operating temperature: 14...131 °F (-10...55 °C)
 Protection: IP67
 Dimensions (W x D): 28 x 30 mm
 Connection: M12, Transmitter: 5-pin, Receiver: 8-pin
 Max. cable length: 100 m
 Safety category: Type 4 (IEC 61496-1) SIL 3 (IEC 61508) SILcl 3 (IEC 62061) PL d / PL e (EN ISO 13849-1)

The following pages include additional safety light curtain options.

Safety Technology

Process Sensors

Industrial Networks

ID Systems

Machine Condition

Power Supplies

Wiring Technology

Safety products

Pressure

Flow

Level

Temperature

AS-i network

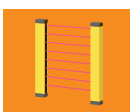
Safety systems

RF identification systems

Diagnostic systems

Power supplies

Cordset solutions



144 - 155

156 - 175

176 - 191

192 - 207

208 - 225

226 - 239

240 - 251

252 - 253

254 - 259

260 - 263

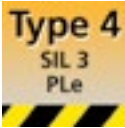
264 - 277



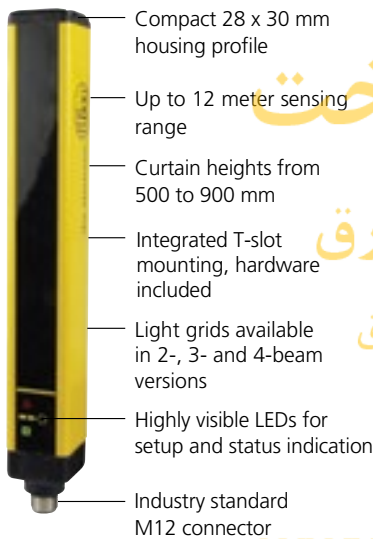
Top product features!

- Light curtains designed for body protection – 300, 400 and 500 mm resolution
- Highest level of safety protection without increasing cost – Type 4 curtains at a Type 2 price
- Up to 12 meter sensing range with no software required
- Light curtains for body protection offer protected heights of 500 mm to 900 mm in intervals of 150 mm
- You don't have to compromise the safety level of your machine because of cost... competitive list prices set a new benchmark for value!

Safety light curtains help to protect plant personnel



ifm's Type 4 safety light curtains provide an optical solution for protecting plant personnel in unsafe work areas. ifm Type 4 light curtains provide continuous protection, tighter effective aperture range, redundant circuitry and the highest maximum achievable safety level requirements.



Why choose ifm for your safety products?

- ifm has taken the complexity out of selecting light curtains by offering only Type 4 light curtains.
- Not only does ifm provide the maximum achievable safety for a light curtain, ifm also offers the optimal resolution models for finger, hand and body protection applications.
- ifm's pricing enables Type 4 light curtains to be used in all applications.
- Fewer variations that cover a broad range of applications allows for standardizing on a smaller number of light curtain models.
- ifm has stock available for immediate delivery.

ifm safety light curtains for **body** protection prevent access to a machine by using light curtains and optional mirrors to define a hazardous area.



Palletizer

A palletizer erects a pallet of kegs and places it on a conveyor. Muting sensors are tripped and the pallet is allowed to bypass the light curtain and leave the area. If an operator attempts to enter the palletizing area from the opposite direction, the light curtain will detect his presence and cut power to the machine.



Perimeter guarding of palletizing area

Corner mirrors allow a single pair of safety light curtains to be used in perimeter guarding applications. Up to three corner mirrors may be used to "bend" the light into shapes that protect multiple sides of the dangerous area. ifm light curtains enable a safe and economical way to replace expensive hard guarding.

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IO-Link

Company

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1 - 5



6 - 21



22 - 55



56 - 61



62 - 71



72 - 111



112 - 117



118 - 119



120 - 127




128 - 143








Product + accessory selector

Type 4 light curtains for body protection


Type	Resolution (mm)	No. of Beams	Protected Area Height (mm)	Protected Area Width (m)	Part No.	List Price
	500	2	500	12	OY114S	\$679.00
	400	3	800	12	OY115S	\$786.00
	300	4	900	12	OY116S	\$917.00

Optional Accessories



Type	Description	Part No.	List Price
	Clamping bracket $\pm 6^\circ$, set of 4	EY3013	\$45.00
	Rotatable bracket $\pm 90^\circ$, set of 4	EY3011	\$83.00
	Vibration damper for mounting, set of 4 pieces.	EY3001	\$41.00
	Vibration damper for mounting, set of 6 pieces.	EY3002	\$64.00
	Laser alignment tool	EY3099	\$261.00

Type	Length (mm)	Resolution (mm)	Beams	Part No.	List Price
	715	610	2	EY1004	\$401.00
	1060	910	3	EY1006	\$498.00
	1230	1060	4	EY1007	\$549.00



Floor stands with integrated corner mirrors

	For light curtains with 2 beams Requires base unit EY2005.	EY1011	\$492.00
	For safety light curtains with 3 and 4 beams Requires base unit EY2005.	EY1013	\$600.00



Floor stands for light curtains

	For safety light curtains ≤ 760 mm. Requires base unit EY2005.	EY2001	\$299.00
	For safety light curtains ≤ 1060 mm. Requires base unit EY2005.	EY2002	\$330.00
	Required spring base unit for floor mounting	EY2005	\$204.00




M12 Micro DC cordset for transmitter

Type	Description	Part No.	List Price
	5 m, 5-pin, PUR	EVC071	\$19.00
	10 m, 5-pin, PUR	EVC072	\$25.00
	5 m, 5-pin, PUR	EVC074	\$19.00
	10 m, 5-pin, PUR	EVC075	\$25.00

M12 Micro DC cordset for receiver

	5 m, 8-pin, PUR	E12166	\$54.00
	10 m, 8-pin, PUR	E12167	\$69.00
	5 m, 8-pin, PUR	E12168	\$54.00
	10 m, 8-pin, PUR	E12169	\$69.00

Safety relays

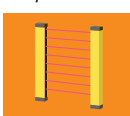
Type	Safety Outputs	Non-safe Outputs	Part No.	List Price
	2 x relay (N.O.)	1 x PNP	G1501S	\$181.00
	2 x PNP	1 x PNP	G1503S	\$165.00
	3 x relay (N.O.) 2 x relay (N.O.) with time delay	1 x relay (N.O.) 1 x relay (N.C.) 1 x PNP with time delay	G1502S	\$292.00
	For muting applications only 2 x relay (N.O.)	1 x PNP	G2001S	\$504.00

Technical Specs

Operating voltage:	19.2...28.8 VDC
Current rating:	2 x 400 mA
Current consumption:	Transmitter 42 mA, Receiver 83 mA
Safety outputs (OSSDs):	2 x PNP
Operating temperature:	14...131 °F (-10...55 °C)
Protection:	IP67
Dimensions (W x D):	28 x 30 mm
Connection:	M12, Transmitter: 5-pin, Receiver: 8-pin
Max. cable length:	100 m
Safety category:	Type 4 (IEC 61496-1) SIL 3 (IEC 61508) SILCl 3 (IEC 62061) PL d / PL e (EN ISO 13849-1)

Safety Technology

Safety products



144 - 155

Process Sensors

Pressure



156 - 175

Flow



176 - 191

Level



192 - 207

Temperature



208 - 225

Industrial Networks

AS-i network



226 - 239

Safety systems



240 - 251

ID Systems

RF identification systems



252 - 253

Machine Condition

Diagnostic systems



254 - 259

Power Supplies

Power supplies



260 - 263

Wiring Technology

Cordset solutions



264 - 277



Top product features!

- Multi-function safety relays are compatible with a variety of devices including switches, light curtains, e-stops and two-hand controls
- Connects e-stop buttons with cross-fault and optional simultaneous monitoring
- Two safety output versions available: relay or solid-state
- Solid-state auxiliary non-safety output provides feedback to PLC
- Meets requirements of Category 4 PL e and SIL 3 (IEC 61508)

Multi-function safety relays reduce stock levels



ifm's multi-functional safety relays are compatible with industry standard safety devices. The versatile safety relays connect single or dual channel emergency stops, mechanical safety switches, transistor-based safety devices, light curtains, two-hand controls and ifm's non-contact safety sensors. All of these devices can be monitored with one relay. The benefit is a large reduction in stock levels that eliminates the need for different types of safety relays for various applications. Dual channel safety devices can be configured to monitor simultaneous logic and cross fault detection across the inputs.

ifm's multi-functional safety relay is compatible with industry standard devices

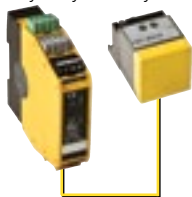


Safety Relays for Series Connection

Up to 10 non-contact, fail-safe sensors can be connected in a series with the ifm clocked input versions. Ideal for monitoring multiple stations, such as robotics cells, the fail-safe sensors will provide an output if the one point along chain is stopped. Using ifm's quick disconnect T-piece connectors, wiring is greatly reduced and simplified.

Single connection

Safety relay Safety sensor



Series connection (up to 10 sensors)

Safety relay Safety sensors



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IO-Link

Company

IO-Link

Position Sensors

Inductive

Capacitive

Cylinder / valve position

Photoelectrics / lasers / fiber optics

Distance / Application specific

Ultrasonic

Motion Control

Encoders / Speed monitors

Vision Sensors

2D / 3D inspection



1 - 5



6 - 21



22 - 55



56 - 61



62 - 71



72 - 111



112 - 117



118 - 119



120 - 127



128 - 143



Product + accessory selector

Type	Dimensions	Supply Voltage	Safety Outputs	Non-Safe Outputs	Part No.	List Price (1-pc.)
Safety relays						
	100 x 25 x 105 mm	19.2...30 V DC	2 x N.O. contacts	1 N.O. transistor output (PNP)	G1501S	\$181.00
	100 x 25 x 105 mm	19.2...30 V DC	2 x N.O. transistor outputs (PNP)	1 N.O. transistor output (PNP)	G1503S	\$165.00
	114 x 25 x 105 mm	19.2...30 V DC	2 x N.O. contacts with delay 3 x N.O. contacts	1 N.O. contact 1 N.C. contact 1 N.O. transistor (PNP)	G1502S	\$292.00
Safety relays for Muting Applications *						
	114 x 35 x 99 mm	19.2...28.8 V DC	2 x N.O. contacts	1 N.O. transistor (PNP)	G2001S	\$504.00

* Can be used with all ifm safety light curtains.

▶ Can't find the right product for your application, call 800-441-8246 or visit www.ifm.com/us

Technical Specs

Protection rating: IP20
 Operating temperature: -13...131 °F (-25...55 °C)
 Housing material: PA
 Contact rating: G1501S, G1502S: 6A, 250 V AC / 24 V DC
 Maximum load current: G1503S: 100 mA per safe output
 Approvals: 2008 Category 4 PL e, SIL 3 (IEC 61508), Type IIIc (EN 574)

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Safety Technology | Process Sensors | Industrial Networks | ID Systems | Machine Condition | Power Supplies | Wiring Technology

Safety products	Pressure	Flow	Level	Temperature	AS-i network	Safety systems	RF identification systems	Diagnostic systems	Power supplies	Cordset solutions
144 - 155	156 - 175	176 - 191	192 - 207	208 - 225	226 - 239	240 - 251	252 - 253	254 - 259	260 - 263	264 - 277





Top product features!

- Safe standstill / underspeed and overspeed models are available
- Safe speed monitors use 2 standard sensors as pick-ups
- 2 safety outputs (contacts)
- Meets requirements of Category 4 PL e and SIL 3
- Low profile safety speed monitors use minimal cabinet space

Speed monitors for safety applications

NEW! ifm offers speed monitors developed for safety applications. Models are available for standstill and overspeed applications. Both styles of speed monitors are suitable for rotational or linear movement and evaluate pulses received from standard PNP sensors.

The DA101S speed monitor is ideal for both standstill and underspeed safety applications. A common application for this monitor is to ensure access doors stay locked until tooling has stopped moving. When the target speed is below the switchpoint, the two OSSD outputs will open.

The DD110S and DD111S speed monitors have been developed for safety-related overspeed monitoring as used in carousels and centrifuges. The DD111S is specifically designed for the low rotational speed of wind turbines. Both units are easily configured via rotary switches. When the switchpoint is exceeded, the 2 OSSD outputs will open.



Speed monitor switch when critical rotational speeds are exceeded or not reached.

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Company	IO-Link	Position Sensors		Cylinder / valve position	Photoelectrics / lasers / fiber optics	Distance / Application specific	Ultrasonic	Motion Control	Vision Sensors
	IO-Link	Inductive	Capacitive					Encoders / Speed monitors	2D / 3D inspection
1 - 5	6 - 21	22 - 55	56 - 61	62 - 71	72 - 111	112 - 117	118 - 119	120 - 127	128 - 143



Product + accessory selector

Type	Dimensions	Adjustable Frequency Range	Safety Outputs	Non-Safe Outputs	Part No.	List Price (1-pc.)
Safety speed monitor – standstill						
	105 x 25 x 100 mm	–	2 x N.O. contacts	1 fault output (PNP)	DA102S	\$393.00
Safety speed monitor – underspeed						
	114.5 x 22.5 x 108 mm	0.5...990 Hz	2 x N.O. contacts	1 fault output (PNP) 1 diagnostic output (PNP)	DU110S	\$420.00
Safety speed monitor – overspeed						
	114.5 x 22.5 x 108 mm	0.5...990 Hz	2 x N.O. contacts	1 fault output (PNP) 1 diagnostic output (PNP)	DD110S	\$452.00
	114.5 x 22.5 x 108 mm	0.1...99.9 Hz	2 x N.O. contacts	1 fault output (PNP) 1 diagnostic output (PNP)	DD111S	\$443.00

▶ Can't find the right sensor for your application, call 800-441-8246 or visit www.ifm.com/us/vision

Technical Specs

	DA102S	DD110S, DD111S and DU110S
Operating voltage:	19.2...30 V DC	19.2...28.2 V DC
Current consumption:	≤ 200 mA	≤ 125 mA
Input frequency:	≤ 3500 Hz	≤ 2000 Hz
Power-on delay time:	≤ 6 s	≤ 3 s
Contact rating:	6 A	6 A
Operating temp:	-13...131 °F (-25...55 °C)	-40...131 °F (-40...55 °C)
Protection:	IP20	IP20
Approvals:	EN ISO 13849-1: Category 4 PL e IEC 61508: SIL 3	EN ISO 13849-1: Category 4 PL e IEC 61508: SIL 3

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Safety Technology

Process Sensors

Industrial Networks

ID Systems

Machine Condition

Power Supplies

Wiring Technology

Safety products

Pressure

Flow

Level

Temperature

AS-i network

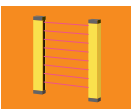
Safety systems

RF identification systems

Diagnostic systems

Power supplies

Cordset solutions



144 - 155



156 - 175



176 - 191



192 - 207



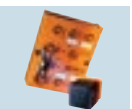
208 - 225



226 - 239



240 - 251



252 - 253



254 - 259



260 - 263



264 - 277