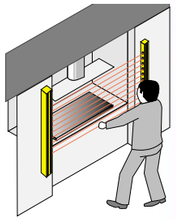
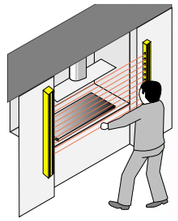
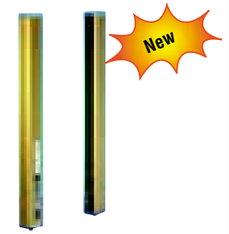
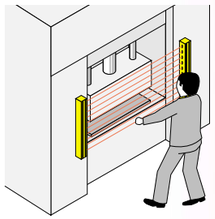
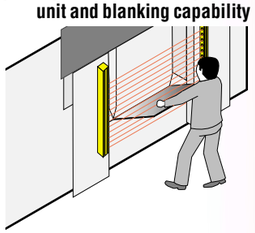
Safety Light Curtains for point-of-operation protection

TYPICAL APPLICATIONS		RESOLUTION	APPROVALS	ELECTRICAL CONNECTION / DIMENSIONS	DIMENSIONS OF THE PROTECTED AREA: SCANNING RANGE (m/ft)	DIMENSIONS OF THE PROTECTED AREA: PROTECTION HEIGHT (mm/in)	Automatic restart	Start & Restart interlock	Test input	FSD monitoring	Response time	Static outputs	Relay outputs	Self-diagnostic indicator	Output status indicator	Cross-talk reduction	Blanking/Reduced resolution	Muting	Cascading	Single/double stroke	Weld splash protection	Sealing	Voltages		
TYPE 4	**Compact Type 4 light curtain with static safety outputs** 	**Heavy industry and material conversion** • Pressing, moulding and thermoforming machines • Conveyors, handling equipment and assembly lines • Copying lathes and machining centers • Door and gate, lift and hoist technology • Stacking machines, transporting and conveyor technology • Textile, packaging machines • Vibrating sieves, sorters and milling machines	FINGER DETECTION **ø14 mm / 0.6 in** HAND DETECTION **ø30 mm / 1.2 in**	c UL us LISTED, INRS, CE, B Approved as Type 4 per IEC/EN 61496-1/2	• M12 (5 pin, 8 pin) • DIN 43651 plugs • Brad Harrison Mini-Change® plugs • Terminal strips (cable glands) 60 mm x 42 mm / 2.36 in x 1.65 in	*FF-SYA30* 20 m/65.6 ft *FF-SYA14* 6 m/20 ft	*320 mm to 1760 mm/ 12.6 in to 56.7 in*	■	❑	■	❑	14 to 18 ms	■	❑	■	■	■		❑	❑	❑	❑		IP 65 NEMA 4 NEMA 13	24 Vdc	**FF-SYA14 / FF-SYA30** 	**FF-SYA**
TYPE 4	**Compact Type 4 light curtain with static safety outputs** 	**Heavy industry and material conversion** • Pressing, moulding and thermoforming machines • Electronic assembly • Copying lathes and machining centers • Textile, packaging machines	FINGER DETECTION **ø18 mm / 0.70 in** HAND DETECTION **ø30 mm / 1.2 in**	c SP us, INRS, CE Approved as Type 4 per IEC/EN 61496-1/2	• M12 (8 pin) connectors 55 mm x 42 mm / 2.16 in x 1.65 in	*FF-SG18 / FF-SG30* 3,5 m / 11.48 ft	*310 mm to 700 mm/ 12.21 in to 27.58 in* (*FF-SG18*) *310 mm to 1470 mm/ 12.21 in to 57.91 in* (*FF-SG30*)	■	❑		❑	15 to 21,5 ms	■	❑		■			❑	❑	❑			IP 65 NEMA 4 NEMA 13	24 Vdc	**FF-SG18 / FF-SG30** New 	**FF-SG**
TYPE 4	**Harsh-duty Type 4 self-contained light curtain with relay outputs** 	**Heavy industry and material conversion** • Presses and punches for metals, plastics and leather • Deep-drawing presses, moulding presses and filter presses • Metal forming, milling and drilling machines • Spot-welding machines and fine-boring machines	FINGER DETECTION **ø22 mm / 0.86 in** HAND DETECTION **ø35 mm / 1.4 in**	c SP us, BG, B (For ac versions only), CE Approved as Type 4 per pr EN 50100 - 1/2	• Metal connectors DIN 43652 116 mm x 56 mm / 4.57 in x 2.20 in	*FF-SB12* 10 m / 32.8 ft *FF-SB14* 10 m / 32.8 ft; 24 m / 78.72 ft Long range version	*200 mm to 600 mm/ 7.88 in to 23.6 in* (*FF-SB12*) *400 mm to 1400 mm / 15.76 in to 55.16 in* (*FF-SB14*)	■	■	■	■	25 to 45 ms	2 NO 1 NC	■	■			❑	❑	❑	■ ⓘ		IP 65 NEMA4 NEMA 13	120 Vac/ 240 Vac 24 Vdc/ 48 Vdc	**FF-SB12 / FF-SB14** 	**FF-SB**
TYPE 4	**Type 4 light curtain with separate control unit and blanking capability** 	**Heavy industry and material conversion** • Presses, metalforming, moulding, milling, thermoforming, and assembly machines • Stacking, transporting and handling equipment, conveyors and assembly lines • Copying lathes and machining centers • Door and gate, lift and hoist technology • Robotic, welding, cutting, and sealing • Textile, packaging machines • Jigging sieves, sorters and special machines	HAND DETECTION **ø31,75 mm / 1.25 in**	c SP us, CE, TÜV PRODUCT SERVICE Approved as Type 4 per IEC/EN 61496-1/2	• *Sensors:* connectors • *Control unit:* removable terminal strips 53,3 mm x 69,8 mm / 2.1 in x 2.75 in	7,6 m / 25 ft 15,3 m / 50 ft Long range version	*146 mm to 1822,5 mm/ 5.75 in to 71.75 in*	■	■		■	25 to 35 ms	■	2 NO 1 NC	■	■		■	❑	■	❑	■ ⓘ		IP 65 NEMA 4	120 Vac 240 Vac 24 Vdc	**DETECTOR™ 3** 	**DETECTOR™ 3**

❑ Through external accessory ⓘ *On specific models, with increased response time*

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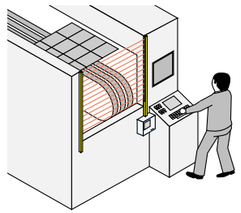
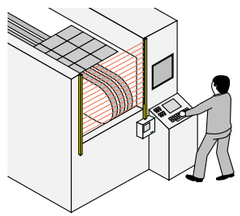
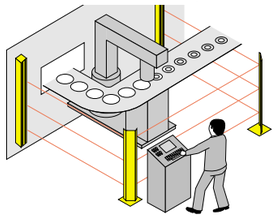
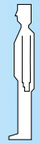
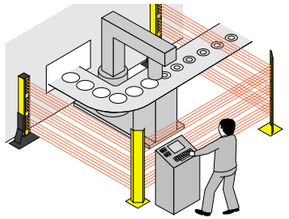
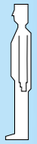
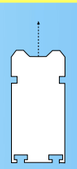
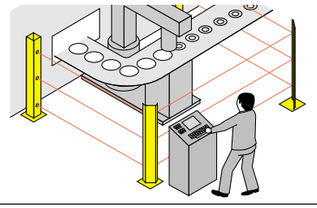
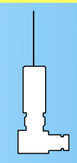
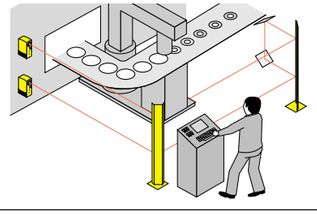
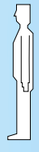
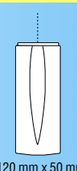
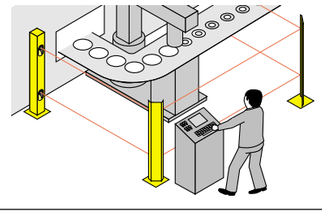
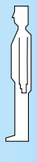
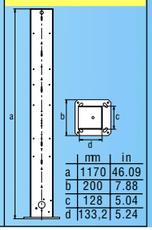
Safety Light Curtains for point-of-operation protection

	TYPICAL APPLICATIONS		RESOLUTION	APPROVALS	ELECTRICAL CONNECTION / DIMENSIONS	DIMENSIONS OF THE PROTECTED AREA: SCANNING RANGE (m/ft)	DIMENSIONS OF THE PROTECTED AREA: PROTECTION HEIGHT (mm/in)	Automatic restart	Start & Restart interlock	Test Input	FSD monitoring	Response time	Static outputs	Relay outputs	Self-diagnostic indicator	Output status indicator	Cross-talk detection reduction	Blanking/Reduced resolution	Muting	Cascading	Single/double stroke	Weld splash protection	Sealing	Voltage		
TYPE 4	**Slim line Type 4 light curtain with separate control unit and relay outputs** 	**Light industry** • Paper cutting machines • Pick-and-place robots • Light electronic assembly machines • Goods lifts • Small carrousels	FINGER DETECTION **ø14 mm / 0.55 in** HAND DETECTION **ø30 mm / 1.18 in**	Approved as **Type 4** per pr EN 50100 - 1/2	• M8 connectors ***FF-LS14*** 23 mm x 35 mm / 0.90 in x 1.38 in ***FF-LS30*** 19 mm x 12 mm / 0.74 in x 0.47 in	*3,5 m / 11.48 ft* ***FF-LS14 / FF-LS30***	*200 mm to 750 mm / 7.88 in to 29.5 in* *200 mm to 1800 mm / 7.88 in to 70.9 in* ***FF-LS14 / FF-LS30***	■	■	■	■	50 ms	2 NO 1 NC	■	■		❑	❑	❑		IP 65 NEMA 4 NEMA 13	24 Vdc and 24 Vac	**FF-LS14 / FF-LS30** 	**FF-LS**
TYPE 2	**Compact Type 2 light curtain with static safety outputs** 	**Heavy industry and material conversion** • Moulding and thermoforming machines • Electronic assembly • Assembly lines • Textile, packaging machines	FINGER DETECTION **ø18 mm / 0.7 in** HAND DETECTION **ø30 mm/1.2 in**	INRS Approved as **Type 2** per IEC/EN 61496 - 1/2	• M12 (8 pin) connectors 55 mm x 42 mm / 2.16 in x 1.65 in	*4 m / 13.12 ft* ***FF-SLG18/FF-SLG30***	*310 mm to 700 mm/ 12.21 in to 27.58 in* *310 mm to 1470 mm/ 12.21 in to 57.91 in* ***FF-SLG18/FF-SLG30***	■	❑	■	❑	15 to21,5ms	■	❑	■		❑	❑	❑		IP 65 NEMA 4 NEMA 13	24 Vdc	**FF-SLG18 / FF-SLG30** New	**FF-SLG**

❑ Through external accessory

Multiple Light Beams for Access Detection to Hazardous Areas

	TYPICAL APPLICATIONS		NUMBER OF BEAMS	APPROVALS	ELECTRICAL CONNECTION / DIMENSIONS	DIMENSIONS OF THE PROTECTED AREA: SCANNING RANGE (m/ft)	DIMENSIONS OF THE PROTECTED AREA: PROTECTION HEIGHT (mm/in)	Automatic restart	Start & Restart interlock	Test input	FSD monitoring	Response time	Static outputs	Relay outputs	Self-diagnostic indicator	Output status indicator	Cross-talk detection reduction	Muting	Weld splash protection	Sealing	Voltage	
TYPE 4	**Compact Type 4 multibeam system with static safety outputs** 	**Heavy industry and material conversion** • Access detection for: - Robotic and transfer areas - Machinery centers - Palletising areas - Storage and stacking areas • Max. length of a U-shaped perimeter: 64 m / 210 ft	*2, 3 or 4 beams*  BODY DETECTION according to EN 999	c UL us LISTED CSA C US INRS CE Approved as Type 4 per IEC/EN 61496-1/2	• M12 (5 pin, 8 pin) • DIN 43651 plugs • Brad Harrison Mini-Change® plugs • Terminal strips (cable glands)  60 mm x 42 mm / 2.36 in x 1.65 in	*0,5 m to 80 m / 1.64 ft to 262.46 ft*	*500 mm to 900 mm / 19.7 in to 35.46 in*	■	❑	■	❑	12 ms	■	❑	■	■	■	❑	❑	IP 65 NEMA 4 NEMA 13	24 Vdc	**FF-SYA234** 
TYPE 4	**Harsh-duty Type 4 self-contained light curtain with relay outputs** 	**Heavy industry and material conversion** • Access detection for: - Robotic and transfer areas - Machinery centers - Palletising areas - Storage and stacking areas • Max. length of a U-shaped perimeter: 19 m / 62.32 ft	*2, 3 or 4 beams* **ø235 mm / 9.25 in**  BODY DETECTION according to EN 999	CSA C US BG CE Approved as Type 4 per pr EN 50100 - 1/2	• Metal connectors DIN 43652  116 mm x 56 mm / 4.57 in x 2.20 in	*3 m to 24 m / 9.84 ft to 78.72 ft*	*600 mm to 1400 mm / 23.64 in to 55.16 in*	■	■	■	■	25 to 27 ms		2 NO + 1 NC		■		❑	❑	IP 65 NEMA 4	120 Vac/ 240 Vac 24 Vdc/ 48 Vdc	**FF-SB15** 
TYPE 4	**Type 4 modular light curtain with M18 sensors and separate control unit with relay outputs** 	**Heavy industry and material conversion** • Access protection on palletising areas • Access detection of areas containing robots or automatic machines • Detection of automatic guided vehicles • Thermoforming, agglomerating and moulding press • Max. length of a U-shaped perimeter: 27 m / 88.56 ft	*2 to 8 beams*  BODY DETECTION according to EN 999	BG CE Approved as Type 4 per pr EN 50100 - 1/2	• Connectors Hirschmann ELWIKA  99 mm x Ø18 mm / 3.90 in x 0.70 in	*25 m/ 82 ft* *33 m / 108 ft* Long range version	*2 to 8 beams*	■	■	■	■	30 ms		2 NO + 1 NC		■		❑		***Sensors:*** IP 67 NEMA 6	120 Vac 230 Vac 24 to 48 Vdc	**FF-SCAN** 
TYPE 4	**Compact Type 4 self-contained single beam with relay outputs** 	**Heavy industry and material conversion** • Access detection of perimeter protection around a robot zone, trip device at the entrance and the exit of a paint shop, etc. • Access detection at the rear of a press brake • Max. length of a U-shaped perimeter: 19 m / 62.32 ft	*1 beam*  BODY DETECTION according to EN 999	CSA C US CE INRS B Approved as Type 4 per pr EN 50100 - 1/2	• Metal connector DIN 43652 • Terminal strips  120 mm x 50 mm / 4.72 in x 0.02 in	*40 m / 131.2 ft* *75 m / 246 ft* Long range version	*1 beam*	■	■	■	■	20 ms		2 NO + 1 NC	■	■	■	❑		IP 67 NEMA 6 ① IP 65 NEMA 4 ②	120 Vac 230 Vac 24 Vdc	**FF-SPS4** 
TYPE 4	**Harsh-duty Type 4 access detection systems with relay outputs** 	**Heavy industry and material conversion** • Access detection for perimeter protection around a robot zone, trip device at the entrance and the exit of a paint shop, etc. • Access detection at the rear of a press brake • Max. length of a U-shaped perimeter: 60 m / 196.8 ft	*2 or 3 beams*  BODY DETECTION according to EN 999	CSA C US CE INRS B Approved as Type 4 per pr EN 50100 - 1/2	• Metal connector DIN 43652 	**2 beam systems** *0 to 20 m/ 0 to 65.6 ft* *5 m to 75 m / 16.4 ft to 246 ft* **3 beam systems** *0 to 8 m / 0 to 26.24 ft* *5 m to 75 m / 16.4 ft to 246 ft*	*500 mm to 800 mm / 19.7 in to 31.52 in*	■	■		■	20 ms		2 NO + 1 NC		■	■	❑		IP 65 NEMA 4		**FF-SPS4 systems** 

mm	in
a 1170	46.09
b 200	7.88
c 128	5.04
d 133,2	5.24

❑ Through external accessory ① *FF-SPS4❑TR❑ terminal strip version, FF-SPS4❑QR❑ Brad Harrison Minichange version* • ② *FF-SPS4❑CR❑ connector version*

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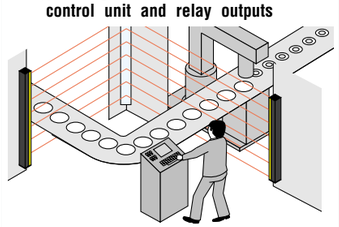
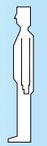
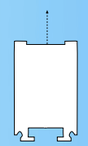
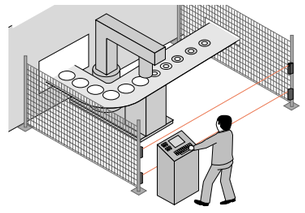
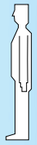
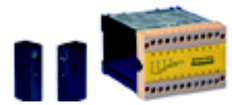
Multiple Light Beams for Access Detection into Low Risk Areas

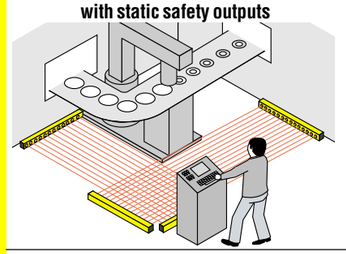
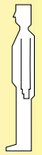
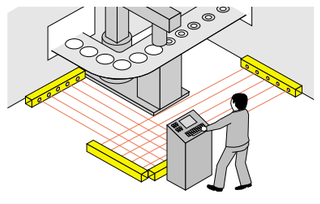
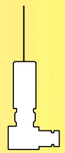
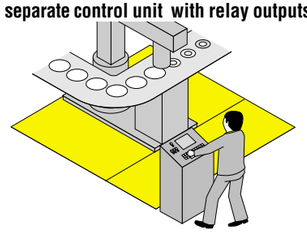
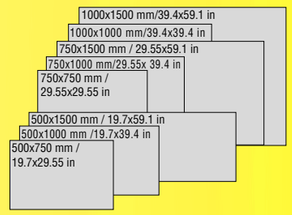
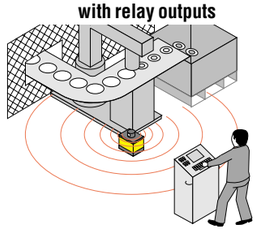
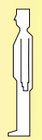
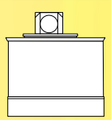
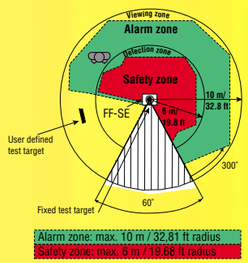
	TYPICAL APPLICATIONS		RESOLUTION	APPROVALS	ELECTRICAL CONNECTION / DIMENSIONS	DIMENSIONS OF THE PROTECTED AREA: SCANNING RANGE (m/ft)	DIMENSIONS OF THE PROTECTED AREA: PROTECTION HEIGHT (mm/in)	Automatic restart	Start & Restart Interlock	Test input	FSD monitoring	Response time	Relay outputs	Self-diagnostic indicator	Output status indicator	Muting	Cascading	Sealing	Voltage	
TYPE 2	Type 2 light curtain with separate control unit and relay outputs 	**Light industry and material conversion, transportation and storage:** • Access detection for robotic areas • Access detection in transfer areas • Perimetric protection • Max. length of a U-shaped perimeter: 8 m / 26.2 ft	*3 to 9 beams*  BODY DETECTION **ø184 mm/7.24 in**	c UL us LISTED; TÜV PRODUCT SERVICE; CE; Approved as Type 2 per EN 50100 - 1/2	• Hirschmann connector  70 mm x 50 mm / 2.75 in x 1.97 in	*12 m / 39.4 ft*	*600 mm to 1100 mm / 23.64 in to 43.34 in*	■	■	■	■	28 to 30 ms	2 NO + 1 NC	■	■	❑	■	IP 65 NEMA 4	***Sensors:*** 24 Vac/dc	**FF-SLC18** 
TYPE 2	Type 2 single beam with separate control unit and relay outputs 	**Light industry and material conversion, transportation and storage:** • Access detection for robotic areas : • Packaging OEMs • Textile Machinery Industries • Automated industrial warehousing systems • Handling, palletising/de-palletising systems • Assembly lines	*1 to 4 beams*  BODY DETECTION **according to EN 999**	TÜV PRODUCT SERVICE; CE; Approved as Type 2 according to IEC/EN 61496-1/2	• M8 connector  25 mm x 15 mm / 0.98 in x 0.59 in	*0,8 m to 6 m / 2.6 ft to 16.7 ft*	*1 to 4 beams*	■	■	■	■	28 to 30 ms	2 NO + 1 NC	■	■	❑	■	IP 65 NEMA 4	***Sensors:*** 24 Vdc	**FF-SLB** 

FF-SLC18

FF-SLB

❑ Through external accessory

Electro-Sensitive Protective Equipment for Presence Detection in Hazardous Areas

	TYPICAL APPLICATIONS		RESOLUTION	APPROVALS	ELECTRICAL CONNECTION / DIMENSIONS	DIMENSIONS OF THE PROTECTED AREA: SCANNING RANGE (m/ft)	DIMENSIONS OF THE PROTECTED AREA: PROTECTION HEIGHT (mm/in)	Automatic restart	Start & Restart interlock	Test input	FSD monitoring	Response time	Static outputs	Relay outputs	Self-diagnostic indicator	Output status indicator	Cross-talk detection reduction	Muting	Cascading	Weld splash protection	Sealing	Voltage		
TYPE 4	**Compact Type 4 light curtain with static safety outputs** 	**Heavy industry and material conversion** • Presence control for: - Robotic and transfer areas - Machinery centers - Palletizing areas - Storage and stacking areas	 BODY DETECTION **ø60 mm / 2.36 in**	c UL US LISTED CSA C US CE INRS Approved as Type 4 per IEC/EN 61496-1/2	• M12 (5 pin, 8 pin) • DIN 43651 plugs • Brad Harrison Mini-Change® plugs • Terminal strips (cable glands)  60 mm x 42 mm/ 2.36 in x 1.65 in	*20 m / 65.6 ft*	*320 mm to 1760 mm / 25.2 in to 63.04 in*	■	❑	■	❑	14 ms to 23 ms	■	❑	■	■	■	❑	■	❑	❑	IP 65 NEMA 4	24 Vdc	**FF-SYA60** 	FF-SYA
TYPE 4	**Type 4 modular light curtain with M18 sensors and separate control unit with relay outputs** 	**Heavy industry and material conversion** • Protection on palletising areas • Presence control of areas containing robots or automatic machines • Detection of automatic guided vehicles • Thermoforming, agglomerating and moulding presses	 BODY DETECTION according to EN 999	BG CE Approved as Type 4 per pr EN 50100 - 1/2	• Connectors Hirschmann ELWIKA  99 mm x Ø18 mm/ 3.9 in x 0.7 in	*25 m / 82 ft* *33 m / 108.24 ft*	*2 to 8 beams*	■	■	■	■	30 ms	■		■		❑	■			*Sensors:* IP 67 NEMA 6	120 Vac 230 Vac 24 to 48 Vdc	**FF-SCAN** 	FF-SCAN
CAT.3 / CAT.4	**Category 3 Pressure sensitive mat and separate control unit with relay outputs** 	**Heavy industry and material conversion** • Presence sensing device for the control of dangerous areas such as robot areas, automotive transfer lines • Additional protection for optoelectronic trip devices • Suitable for cutting oils, welding splashes, shavings, etc.	 BODY DETECTION **Sensitivity ≥ 30 kg/66 lbs**	CSA C US CE INRS EN 1760 *Mat* Category 3 EN 954-1 *Control unit:* Category 4 EN 954-1	• Terminal strips (cable glands) for control unit • Fiber optic cables for safety mat • Max. surface per control unit: 6 m²/64.5 ft² • Width:≤ 20 mm/0.78 in • Dimensions of the control unit: 211 x 211 x 96 mm/ 8.31 x 8.31 x 3.78 in	Standard dimensions available: 		■	❑	■	❑	25 ms	■	■	■			❑	■			*Sensor:* IP 67 *Control unit:* IP 65	120 Vac 240 Vac 24 Vdc	**FF-SM** 	FF-SM
TYPE 3	**Category 3 laser scanner with relay outputs** 	**Light industry** • Ground level trip device • Industrial robot areas • Automatically guided vehicles • For the control of large areas of any shape • Suitable for relatively clean environments	 BODY DETECTION **ø70 mm / 2.75 in**	CSA C US CE UL 1998 BIA Berufsgenossenschaftliches Institut für Arbeitssicherheit Approved as Type 3 according to IEC/EN 61496-1/2	• Binder cordset (5 m/ 16.4 ft) for power and signal • Binder RS232 cordset (3 m/9.84 ft) for PC connection  172 x 176 x 107 mm/ 6.77 x 6.93 x 4.21 in			■	❑		❑	280 ms	■	■	■			❑	❑			IP 65	24 Vdc	**FF-SE** 	FF-SE

❑ Through external accessory

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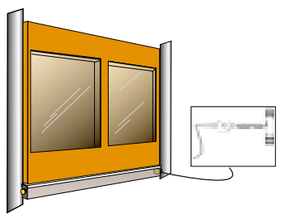
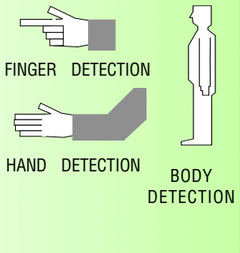
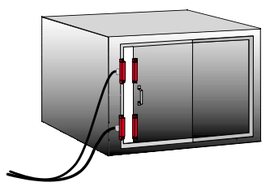
Safety Sensitive Edges

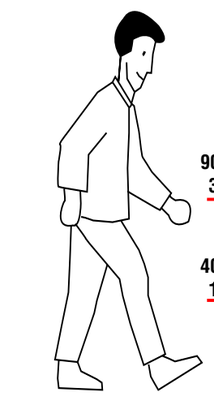
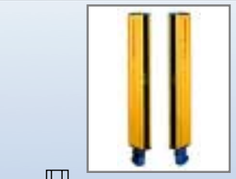
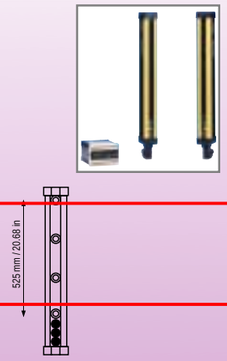
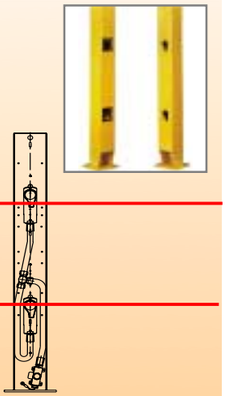
TYPICAL APPLICATIONS		DETECTION CAPABILITY	APPROVALS	ELECTRICAL CONNECTION / DIMENSIONS	DIMENSIONS OF THE PROTECTED ZONE SCANNING RANGE (m/ft)	Automatic restart	Start & Restart interlock	Test input	FSD monitoring	Response time of the control unit	Auxiliary static outputs	Relay outputs	Muting	Output status indicator	Cross-talk detection reduction	Sealing	Voltage	
CATEGORY 4	**Safety Sensitive Edges** 	• Industrial doors (sectional doors, sliding doors, etc.) - Machine guards and doors - Auto-Guided vehicle - Automatic handling systems or manipulators (robots, material feeding systems, etc.)		BG, UL, CE, Suitable for interfaces up to CATEGORY 4 per EN 954-1	Electrical Connection: 3 wires • ***Sensors***: 37 mm x 11,5 mm / 145 in x 0.45 in • ***Control unit***: 22,5 mm x 11 mm x 120 mm / 0.88 in x 0.43 in x 0.02 in	***0,4 m to 10 m / 1.31 ft to 32.8 ft***	■	■	❑	■	32 ms	1	2 NO	■	■	❑	***Sensors:*** IP 68 ***Control unit:*** IP 40	24 Vdc	**FF-SD**  FF-SD

Non Contact Safety Switches

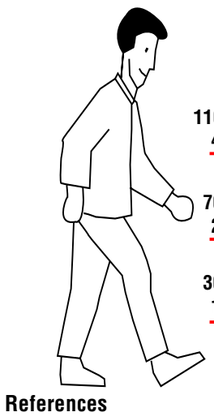
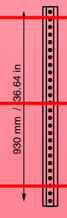
TYPICAL APPLICATIONS		DETECTION CAPABILITY	APPROVALS	ELECTRICAL CONNECTION / DIMENSIONS	FUNCTION	Automatic restart	Start & Restart interlock	Test input	FSD monitoring	Response time of the control unit	Static outputs	Relay outputs	Output status indicator	Cascading	Sealing	Voltage	
CATEGORY 3	**Safety magnetic muti-sensor system** 	• Interlocking guards for non-locked mechanical screens offering free access • Machine door or casing position detection • Guard-in-place detection, gate or access door detection • Control of mechanical screens used in addition to a safety light curtain • Meet the requirements of the following industries: Food & Beverage	Operating range: 5 mm - 7 mm / 0.20 in - 0.27 in ON, 8 mm - 12 mm / 0.32 in - 0.47 in OFF	CE, UL, Suitable for interfaces up to Category 3 per EN 954-1, TÜV NORD	Electrical Connection: 2 wires • ***FF-SNC200R2/ FF-SNC1EXT*** W: 22,5/0.88 H: 84/3.30 D: 119/4.68 • ***FF-SNC400R2/ FF-SNC400RE*** W: 75/2.95 H: 74/2.91 D: 119/4.68	• Tamper resistant keyed magnetic field actuated sensors • Multi-sensor safety control module	■	■	NA	■	15 ms	NA	2 NO + 1 NC	■	❑	***Sensors:*** IP 67 ***Control unit:*** IP 40	24 Vac/Vdc 110 Vac	**FF-SNC**  FF-SNC

ACCESS DETECTION IN DANGEROUS AREAS

2 BEAMS (OR EQUIVALENT) ACCESS DETECTION SOLUTIONS (EN 999 STANDARD)

Body detection	Integrated safety light curtain FF-SYA60	Integrated multibeam safety light curtain FF-SB15	Multibeam safety light curtain FF-SLC18 and separate control unit	Safety single beam FF-SPS4 + mirrors	FF-SPS4 Columns
Advantages	• Compact housing • Static outputs • Good cross-talk immunity	• Integrated advanced functions • Robust	• Low cost solution • Compact housing	• Small housing • Long range • Flexible placement	• Robust • Floor mounting • Easy alignment
Type according to IEC/EN 61496-1	Type 4	Type 4	Type 2	Type 4	Type 4
						
References	**FF-SYA60064C2** (24 Vdc)	**FF-SB15E/R064-S2** (24 V) **FF-SB15E/R06K-S2** (120/240 V)	**FF-SLC18062 +** **FF-SLU100R2** (24 V)	**FF-SPS44TR2** (24 V) **FF-SPS44TRE** (120 V) **FF-SPS44TRG** (240 V)	**FF-SPS4ERX❑❑ + FF-SPZ12MIR** (20 m / 65.6 ft) **FF-SPS4EEX❑❑-1 +** **FF-SPS4RRX❑-1** (75 m / 246 ft)
Scanning range (straight line)	20 m / 65 ft	24 m / 78.72 ft	12 m / 39.4 ft	40 m or 75 m / 131.2 ft or 246 ft	8 m, 20 m or 75 m / 26.24 ft, 65.6 ft or 246 ft
L-shaped mirror for perimetric protection	1x **FF-SLC06MIR** (range: 14 m / 45.9 ft) 1x **FF-SBSMIR06** (range: 18 m / 59.04 ft)	1x **FF-SBZ02MIR** (range: 21,5 m / 70.52 ft) 1x **FF-SBSMIR06** (range: 21,5 m / 70.52 ft)	1x **FF-SLC06MIR** (range: 9 m / 29.52 ft) 1x **FF-SBSMIR06** (range: 11 m / 36.08 ft)	1x **FF-SCZ02MIR** (range: up to 56 m / 183.68 ft)	1x **FF-SCZ02MIR** (range: up to 56 m / 183.68 ft)
U-shaped mirror for perimetric protection	2x **FF-SLC06MIR** (range: 10 m / 32.8 ft) 2x **FF-SBSMIR06** (range: 16 m / 52.48 ft)	2x **FF-SBZ02MIR** (range: 19,5 m / 63.96 ft) 2x **FF-SBSMIR06** (range: 19,5 m / 63.96 ft)	2x **FF-SLC06MIR** (range: 7 m / 22.96 ft) 2x **FF-SBSMIR06** (range: 9,5 m / 31.16 ft)	2x **FF-SCZ02MIR** (range: up to 42 m / 137.76 ft)	2x **FF-SCZ02MIR** (range: up to 42 m / 137.76 ft)

3 BEAMS (OR EQUIVALENT) ACCESS DETECTION SOLUTIONS (EN 999 STANDARD)

						
References	**FF-SYA60096C2** (24 Vdc)	**FF-SB15E/R104-S2** (24 V) **FF-SB15E/R10K-S2** (120/240 V)	**FF-SLC18092 +** **FF-SLU100R2** (24 V)	**FF-SPS44TR2** (24 V) **FF-SPS44TRE** (120 V) **FF-SPS44TRG** (240 V)	**FF-SPS4EM1❑-❑ + FF-SPS4RM1❑-❑** (8 m / 26.24 ft) **FF-SPS4RER❑-1 + FF-SPS4ERE❑-1** (75 m / 246 ft)
L-shaped mirror for perimetric protection	1x **FF-SLC09MIR** (range: 14 m / 45.9 ft) 1x **FF-SBSMIR10** (range: 18 m / 59.04 ft)	1x **FF-SBZ03MIR** (range: 21,5 m / 70.52 ft) 1x **FF-SBSMIR10** (range: 21,5 m / 70.52 ft)	1x **FF-SLC09MIR** (range: 9 m / 29.52 ft) 1x **FF-SBSMIR10** (range: 11 m / 36.08 ft)	1x **FF-SCZ03MIR** (range: up to 56 m / 183.68 ft)	1x **FF-SCZ03MIR** (range: up to 56 m / 183.68 ft)
U-shaped mirror for perimetric protection	2x **FF-SLC09MIR** (range: 10 m / 32.8 ft) 2x **FF-SBSMIR10** (range: 16 m / 52.48 ft)	2x **FF-SBZ03MIR** (range: 19,5 m / 63.96 ft) 2x **FF-SBSMIR10** (range: 19,5 m / 63.96 ft)	2x **FF-SLC09MIR** (range: 7 m / 22.96 ft) 2x **FF-SBSMIR10** (range: 9,5 m / 31.16 ft)	2x **FF-SCZ03MIR** (range: up to 42 m / 137.76 ft)	2x **FF-SCZ03MIR** (range: up to 42 m / 137.76 ft)
Options	Interface control module FF-SRS59392 Muting FF-SRM100P2	Muting FF-SRM100P2	Muting FF-SLM200R2 (replaces the FF-SLU100R2)	Muting FF-SRM100P2 Mirror FF-SPZ01MIR (10 % scanning range reduction) Mirror FF-SPZ11MIR (25 % scanning range reduction)	Muting FF-SRM100P2

HONEYWELL 压力传感器

公司由传感器销售部、仪表销售部、工程部和总务部四个部组成。我公司是美国霍尼韦尔（HONEYWELL）公司中国区指定的专业代理商,传感器部 2000 年成为美国 HONEYWELL 中国区指定代理商。专业销售 HONEYWELL 传感与控制部产品（Sensing and Control）我们不仅销售给客户最合适的产品同时也积极的为客户的开发工作提供帮助及解决客户在应用中所遇到的困难。为了更加方便用户，我们长期备有大量现货。传感器的应用十分广泛。通过我们几年来的努力，我们已经在 HAVE，医疗,马达控制,航空航天，财务设备，汽车仪表，阀门控制，车辆导航，气象仪器，色谱分析，水电煤气表等行业有了较好的业绩。这些都源于我们有一个优秀的团队，传感部目前有 10 多名名销售工程师，90%都是大专以上学历，且长期服务于自动化行业第一线。有着丰富的经验。我司还代理美国 ICSENSORS,MSI 的传感器,变送器。我部门专业从事传感器的销售,有专业人员为您提供售后服务。HONEYWELL,MSI,ICSENSORS,MOTOROLA 的 24PC，26PC，SCC，SX，ASDX，XPCL，XSXL，XSCL，SLP，CPC，SDX，SCX，HPX，40PC，4040PC,SDXL，SCXL，DCXL，DUXL，DC，PPT，MLH，ST，EC；MSP300，MSP310，MSP320，MSP400，MSP600，US300，US600；1451 型，1471 型，1210A 型，1220A 型，1230A 型，1240A 型，13 型，23 型，33 型，43 型，17 型，27 型，37 型，47 型，84 型，85 型，154N 型，MPX 全系列系列正被广泛的应用到医疗器械，环保，水处理工程，HVAC，仪器仪表，航空航天，自动控制系统。

产品或服务:（HONEYWELL，MSI,ICSensors,MOTOROLA）压力传感器，霍尔传感器，弱磁传感器，流量传感器，电流传感器，温度传感器，液位传感器，湿度传感器，红外传感器，齿轮传感器，触力传感器，及工业开关类产品。

主要价格优势产品：HONEYWELL 传感器，变送器；MSI,ICSensors 传感器,变送器,MOTOROLA 传感器。

AWM40000 系列气体质量流量传感器 点击此处进入产品详细说明

	AWM40000 系列放大输出气体质量流量传感器,多个集中安装 / O 形密封圈,陶瓷流量管（无引气管），0-1000sccm,塑料流量管（无引气管），0-6SLPM,高共模压力（150psi）,工作温度可至 125℃,零点和满量程高稳定性

MLH 系列压力传感器(Honeywell) 点击此处进入产品详细说明

	MLH 型压力传感器结合了应用特殊集成电路（ASIC）技术中的最新技术以及证明可靠的隔离介质的金属隔膜设计。MLH 型压力传感器全部进行补偿，校准和放大，MLH 可适用于 50psi-8000psi 的压力范围。

24PC 系列差压，表压和绝压传感器(进口) 点击此处进入产品详细说明

	24PC 系列差压，表压和绝压/无放大，无补偿，2mA 恒流供电可以显著的改善灵敏度温飘，可以测量负压，正压，绝压。

40PC 系列 压力传感器 点击此处进入产品详细说明

	最新的经济型 40PC 产品是由 HoneywelI/MicroSwitch 分部推出的最小体积放大压力传感器。完全校整和温度补偿，是霍尼韦尔压力产品中最坚固、适用温度最宽的传感器。另外，40PC 可与很大范围的介质兼容，从干燥空气和水到冷却液和机油。40PC 提供模拟放大信号输出，传感器利用了独创的单硅片的设计，把所有温度补偿、输出零点/ 满量程校整、放大功能集中在一块硅片中。

26PC 系列 差压，表压传感器 点击此处进入产品详细说明

	专利的导电密封弹性连接系统消除了传统的导线粘结和带状连接，增加了介质的测量兼容性,专利的;结构导致了多样化的测量孔形式,最低价格的带温度补偿和校整的小型封装压力传感器,不同的引脚可选（1X4 或 2X2）,可以测量负压、正压,激光刻蚀电阻保证极好的器件一致性

HPX 系列压力传感器 点击此处进入产品详细说明

	微型封装尺寸,可供表压型和绝压型,不带补偿和校准,压力范围自 0psi 至 100psi,响应时间一般为 1mS,两种封装形式：DIP 和 SOIC（双列式封装和小型集成电路）,工作温度范围宽,表面贴装和通孔安装

ASDX 压力传感器 点击此处进入产品详细说明

	传感器可以用来测量绝压差压和表压，范围从 1psi（ASDX01DN）到 100psi（ASDX100）。绝压传感器具有一个内部的真空标准，其输出电压与绝对压力成正比。差压传感器允许将压力施加在检测膜片的两边，可以用在表压和差压的测量中。

HONEYWELL 传感器型号大全

详细资料:

我公司长期提供以下型号的传感器。

开关量霍尔

103SR11A-1，103SR12A-1，103SR13A-1，103SR14A-1，103SR17A-1，103SR18A-1，2SS52M，2SS52M-S，SR13C-A1，SR13D-A1，SR13F-A1，SR13R-A1，SR15C-A3，SR16C-J6，SRC17C-J6，SR3F-A1，SR3B-A1，SR3G-A1，SR3C-A1，SR4P2-A1，SS11，SS11T，SS111A，SS113A，SS141A，SS143A，SS149A，SS161A，SS166A，SS41，SS411A，SS413A，SS441A，SS443A，SS449A，SS461A，SS466A，SS51T，SS500，SS526DT。

模拟量霍尔

103SR3F-5，SS49，SS19，SS19T，SS495A，SS495A1，SS495A2，SS94A1，SS94A1B，SS94A1E，SS94A1F，SS94A2，SS94A2C，SS94A2D，SS94B1。

内置磁铁霍尔传感器

2AV54，1GT101DC，GTN1A111，GTN1A112，GTN1A113，GTN1A114，GTN1A115，GTN1A116，GTN1A117，GTN1A211，GTN1A131，VX10，VX80，VX10-A1，VX80-A1，VX10-A2，VX80-A2，VX10-A3，VX80-A3，VX10-B1，VX80-B1，VX10-C1，VX80-C1，RPN1A112。

带放大压力传感器

142PC01D，142PC02D，142PC03D，142PC05D，142PC15D，142PC30D，142PC15A，142PC30A，142PC30G，141PC01D，141PC02D，141PC03D，141PC05D，141PC15D，141PC30D，143PC01D，143PC02D，143PC03D，143PC05D，143PC15D，143PC30D，141PC01G，141PC02G，141PC05G，142PC01G，142PC02G，142PC03G，142PC05G，142PC15G，163PC01D36，163PC01D48，163PC01D75，164PC01D76，163PC01D37，163PC01D76，161PC01D36，162PC01D36，164PC01D36，189PC15GM，189PC100GM，189PC150GM，ASCX01DN，ASCX05DN，ASCX15AN，ASCX15DN，ASCX30AN，ASCX30DN，ASCX100AN，ASCX100DN，ASCX150DN，ASCX150AN，ASDX015A24R，ASDX030A24R，ASDX100A24R，ASDX001G24R，ASDX005G24R，ASDX015G24R，ASDX020G24R，ASDX100G44R，ASDX001D44R，ASDX005D44R，ASDX015D44R，ASDX030D44R，ASDX100D44R，40PC001G2A，40PC015G2A，40PC100G2A，40PC150G2A，40PC250G2A，40PC500G2A，4040PC001G5D，4040PC015G5D，4040PC100G5D，4040PC150G5D，4040PC250G5D，4040PC500G5D.

无带放大压力传感器

26PCCFG5G，26PC01SMT，26PC05SMT，26PC15SMT，24PCAFA6G，24PCBFA6G，24PCCFA6G，24PCDFA6G，24PCEFA6G，24PCFFA6G，24PCGFA6G，24PCAFA6D，24PCBFA6D，24PCCFA6D，24PCDFA6D，24PCEFA6D，24PCFFA6D，24PCGFA6D，24PCCFD6A，24PCGFH6G，26PCAFA6G，26PCBFA6G，26PCCFA6G，26PCDFA6G，26PCFFA6G，26PCAFA6D，26PCBFA6D，26PCCFA6D，26PCDFA6D，26PCFFA6D，

1865-01G-KDN，1865-02G-KDN，1865-03G-KDN，1865-05G-KDN，
1865-07G-KDN，1865-01G-LDN，1865-02G-LDN，1865-03G-LDN，
1865-05G-LDN，1865-07G-LDN，1800-00G-K0L-B，1800-01G-K0L-B，
1800-02G-K0L-B，1800-03G-K0L-B，1800-07G-K0L-B，1800-08G-K0L-B，
1800-09G-K0L-B，1800-10G-K0L-B，1800-00D-K4L-B，1800-01D-K4L-B，
1800-02D-K4L-B，1800-03D-K4L-B，1800-04D-K4L-B，1800-00D-K4L-C，
1800-08D-K4L-B，1800-08D-K4L-C，SCC15ASMT，SCC30ASMT，SCC100ASMT，
SCC300ASMT，SCC05GSMT，SCC15GSMT，SCC30GSMT，SCC100GSMT，SCC300GSMT，
SCC15ASMTP，SCC30ASMTP，SCC15GSMTP，SCC05GSMTP，SCC30GSMTP，SCC05D，
SCC15D，SCC30D，SCC100D，SCC15A，SCC30A，SCC100A，SCC05DN，SCC15DN，
SCC30DN，SCC100DN，SCC05AN，SCC15AN，SCC30AN，SCC100AN，SCC05GSO，
SCC15GSO，SCC30GSO，SCC100GSO，SCC15AHO，SCC30AHO，SCC100AHO，
SCC300AHO，SCC05DP1，SCC15DP1，SCC30DP1，SCC15AP1，SCC30AP1，SCC05GD2，
SCC15GD2，SCC30GD2，SCC100GD2，SCC15AD2，SCC30AD2，SCC100AD2，
SCC05DD4，SCC15DD4，SCC30DD4，SCC100DD4，SCX01DN90，SCX05DN90，
SCX15DN90，SCX30DN90，SCX100DN90，SCX150DN90，SCX01DNC90，SCX05DNC90，
SCX15DNC90，SCX30DNC90，SCX100DNC90，SCX150DNC90，SCX01ANC90，
SCX05ANC90，SCX15ANC90，SCX30ANC90，SCX100ANC90，SCX150ANC90，
SCX01AN90，SCX05AN90，SCX15AN90，SCX30AN90，SCX100AN90，SCX150AN90，
SDX15A2，SDX15A4，SDX30A2，SDX30A4，SDX100A2，SDX100A4，SDX01G2，
SDX05G2，SDX15G2，SDX30G2，SDX100G2，SDX01D4，SDX05D4，SDX15D4，
SDX30D4，SDX100D4，SDX01D4-A，SDX05D4-A，SDX15D4-A，SDX30D4-A，
SDX100D4-A，SDX01G2-A，SDX05G2-A，SDX15G2-A，SDX30G2-A，SDX100G2-A，
SDX15A2-A，SDX15A4-A，SDX30A2-A，SDX30A4-A，SDX100A2-A，SDX100A4-A，
SX7001D，SX7005D，SX7015D，SX7030D，SX7100D，SX7150D，SX7300D，SX01D，
SX05D，SX15D，SX30D，SX100D，SX150D，SX15A，SX30A，SX100A，SX150A，
SX01DP1，SX05DP1，SX15DP1，SX30DP1，SX15AP1，SX30AP1，SX01DN，SX05DN，
SX15DN，SX30DN，SX100DN，SX15AN，SX30AN，SX100AN，SX150AN，SX01GSO，
SX05GSO，SX15GSO，SX30GSO，SX100GSO，SX150GSO，SX15AHO，SX30AHO，
SX100AHO，SX150AHO，SX01GD2，SX05GD2，SX15GD2，SX30GD2，SX100GD2，
SX01DD4，SX05DD4，SX15DD4，SX30DD4，SX100DD4，SX15AD4，SX30AD4，
SX100AD4，SX15AD2，SX30AD2，SX100AD2。

微压传感器

CPCL04DC，CPCL10DC，CPCL04DFC，CPCL10DFC，CPXL04DFC，CPXL10DFC，
CPXL01DC，CPXL10DC，XPCL04DC，XPCL10DC，XPCL04DTC，XPCL10DTC，XPX50D，
XPXL04DC，XPXL10DC，XPXL04DTC，XPXL10DTC，XSXL04D，XSXL10D，XSCL04DC，
XSCL10DC，SDXL005D4，SDXL010D，SLP004D，SLP010D，DCXL01DN，DCXL05DN，
DCXL10DN，DCXL20DN，DCXL30DN，DC001NDC4，DC002NDC4，DC005NDC4，
DC010NDC4，DC020NDC4，DC030NDC4，DC001NDR4，DC002NDR4，DC005NDR4，
DC010NDR4，DC020NDR4，DC030NDR4，DC001NDR5，DC002NDR5，DC005NDR5，
DC010NDR5，DC020NDR5，DC030NDR5，DC2R5BDC4，DC005BDC4，DC075BDC4，
DUXL01D，DUXL05D，DUXL10D，DUXL20D，DUXL30D。

高精度智能压力传感器

HPB100，HPB200，HPA100，HPA200，PPT-R，PPT0015AWN2VA-A，RDD100。

闭环线性电流

CSNA111，CSNB121，CSNB131，CSNC241，CSNE151，CSNE151-100，CSNF163，CSNF173，CSNP661，CSNP661-002，CSNT651，CSNT651-001，CSNF161，CSNF161-002，CSNF151，CSNF151-001，CSNR161，CSNR161-002，CSNR151，CSNJ481，CSNJ481-001，CSNJ481-002，CSNJ481-003，CSNK591，CSNK591-001，CSNK591-002，CSNK591-003，CSNE151-100，CSNX25DTS，

开关型电流

CSDA1BA，CSDA1BC，CSDC1BA，CSDC1BC，CSDA1AA，CSDA1AC，CSDC1AA，CSDC1AC，CSDC1DA，CSDA1DA，CSDC1DC，CSDD1EC，CSDD1EE，CSDD1EF，CSDD1EG，CSDD1EH，CSLH3A45。

开环线性电流

CSLA1CD，CSLA1CE，CSLA1DE，CSLA1CF，CSLA1DG，CSLA1CH，CSLA1DJ，CSLA1EJ，CSLA1DK，CSLA1EK，CSLA1EL，CSLA2CD，CSLA2CE，CSLA2DE，CSLA2CF，CSLA2DG，CSLA2DJ，CSLA2DH，CSLA2EJ，CSLA2DK，CSLA2EL，CSLA2EM，CSLA2EN，CSLA1GD，CSLA1GE，CSLA1GF，CSLA2GD，CSLA2GE，CSLA2GF，CSLA2GG。

气体流量质量传感器

AWM2100V，AWM2150V，AWM2200V，AWM2300V，AWM720P1，AWM3100V，AWM3200V，AWM3150V，AWM3300V，AWM42150VH，AWM42300V，AWM43300V，AWM43600V，AWM5101VN，AWM5102VN，AWM5103VN，AWM5104VN，FRN11112，FRN21112，FRN12212，FRN22212。

磁阻传感器

HMC1001，HMC1002，HMC1021，HMC1021Z，HMC1021S，HMC1023，HMC1052，HMC1501，HMC1512，HMC2003，HMR2300，HMR2300R，HMR3000，HMR3100，HMR3200，HMR3300。

温度传感器

HEL-700-U-0-A，HEL-700-U-0-B，HEL-700-U-0-C，HEL-700-T-0-A，HEL-700-T-0-B，HEL-700-T-0-C，HEL-700-U-1-A，HEL-700-U-1-B，HEL-700-U-1-C，HEL-700-T-1-A，HEL-700-T-1-B，HEL-700-T-1-C，HEL-775-A-U-0，HEL-775-A-U-1，HEL-775-A-T-0，HEL-775-A-T-1，HEL-775-B-U-0，HEL-775-B-U-1，HEL-775-B-T-0，HEL-775-B-T-1，HEL-776-A-U-0，HEL-776-A-U-1，HEL-776-A-T-0，HEL-776-A-T-1，HEL-777-A-U-0，HEL-777-A-U-1，HEL-777-A-T-0，HEL-777-A-T-1，TD4A，TD5A。

湿度传感器

HIH3610-003，HIH3602-L-CP，HIH3602-A，HIH3602-C，

液位传感器

LLE102000，LLE105000，LL101000，LL102000，LL103000，LL104000，LL105000，LL101101，LL102101，LL103101，LL10401，LL105100，LL20500-1，LL205102-1，LL305002-1，LRNH31S42，LRNH51S42。

混浊度传感器

APMS-10GRCF，APMS-10GRCF-50，APMS-10GRCF-18，APMS-10GRCF-KIT。

触力传感器

FSG-15N1A，FSL05N2C

MOTOROLA 压力传感器

MPX10D MPX10DP MPX10GP MPX10GS MPXV10GC6U MPXV10GC7U MPX12D MPX12DP MPX12GP MPX2010D MPX2010DP MPX2010GP MPXT2010G7U MPX2050D MPX2050DP MPX2050GP MPX2050GVP MPX2050GS MPX2050GSX MPX2050GVSX MPX2053D MPX2053DP MPX2053GP MPX2100A MPX2100DP MPX2100AP MPX2100AS MPX2100ASX MPX2102A MPX2102D MPX2102DP MPX2102AP MPX2102GP MPX2102GVP MPX2200A MPX2200D MPX2200DP MPX2200AP MPX2200GP MPX2200A MPX2200D MPX2200DP MP2200AP MPX2200GP MPX21002A MPX2102D MPX2102DP MPX2102AP MPX2102GP MPX2102GVP MPX2200A MPX2200D MPX2200DP MPX2200AP MPX2200GP MPX2201GP MPX2300DT1 MPX4080D MPX4100A MPXA4100A6U MPX4100AP MPXA4100A6U MPX4100AS MPX4101A MPXA4101AC6U MPX4105A MPX4115A MPXA4115A6U MPX4115AP MPXA4115AC6U MPX4115AS MPX4200A MPX4200AP MPX4200SA MPX4200ASX MPX4250A MPX4250AP MPX4250A6U MPXA4250A6T1 MPXA4250AC6U MPXA4250AC6T1 MPX4250D MPX4250GP MPX4250DP MPX5010D MPX5010DP MPX5010GP MPX5010GS MPX5010GSX MPXV5010G6U MPXV5010G7U MPXV5010GC6U/T1 MPXV5010GC7U MPX5050D MPX5050DP MPX5050GP MPX5100A MPX5100D MPX5100DP MPX5100AP MPX5100GP MPX5100GVP MPX5100AS MPX5100GS MPX5100GVS MPX5100ASX MPX5100GSX MPX5100GVSX MPX53D MPX53GP MPX5500D MPX5500DP MPX5700D MPX5700A MPX5700DP MPX5700GP MPX5700AP MPX5700GS MPX5700AS MPX5999D MPXA6115A6U MPXA6115AC6U MPXA6115A MPXA6115A6T1 MPXA6115AC6T1 MPXAZ4100A6U MPXAZ4100A MPXAZ4100A6T1 MPXAZ4100AC6U MPXAZ4100AC6T1 MPXAZ4115A6U MPXZ4115A MPXAZ4115A6T1 MPXAX4115AC6U MPXAZ4115AC6T1 MPXC2011DT1 MPXM2010D MPXM2010DT1 MPXM2010GS MPXM2010GST1 MPXM2053D MPXM2053DT1 MPXM2053GS MPXM2053GST1 MPXV4006GC6U MPXV4006G6U MPXV4115V6U MPXV4115V6T1 MPXV4115VC6U MPXV5004GC6U/T1 MPXV5004G6U/T1 MPXV5004GC7U MPXV5004G7U MPXY8010 MPXY8020 MPXY8030 MPXY8040

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