



Safe and accurate position detection: mechanical, optical, capacitive and inductive



Download the catalog:
Eaton.com/catalog

Eaton safety/position switches with positive opening contacts can be used wherever positions need to be accurately detected. They are equipped with Cage Clamps or screw terminals and are available in either metal or plastic housings. Their large cable connection area ensures that they can be wired quickly. In addition, the operating heads are both easy to install and versatile. Safety-door switches and safety position switches are used to protect people and processes. They can be used to implement safe shutdowns and to ensure that protective doors are safely locked.

Inductive, capacitive and optical object detection are available, as required. The sensors are available in both AC and DC versions, and in various rectangular and tubular designs, so that they can be easily adapted to any type of location. The iProx sensors, which can be easily adapted to the application at hand, are one of the main highlights of this series. In fact, the E59 iProx can be used to replace a wide range of standard sensors, for example during maintenance.



Eaton.com/positionswitches
Eaton.com/sensors



More than a mechanical switch: LSE-Titan

- Variable and adjustable operating point
- Precisely defined and reproducible
- The two high-speed and bounce-free PNP switching outputs support high switching frequencies.
- Analog voltage output for precise position control
- Certified by TÜV Rheinland
- With adjustable operating point



Reliable machine protection with non-contact safety switches

The RS Titan non-contact safety switches have been specifically developed for monitoring protective covers.

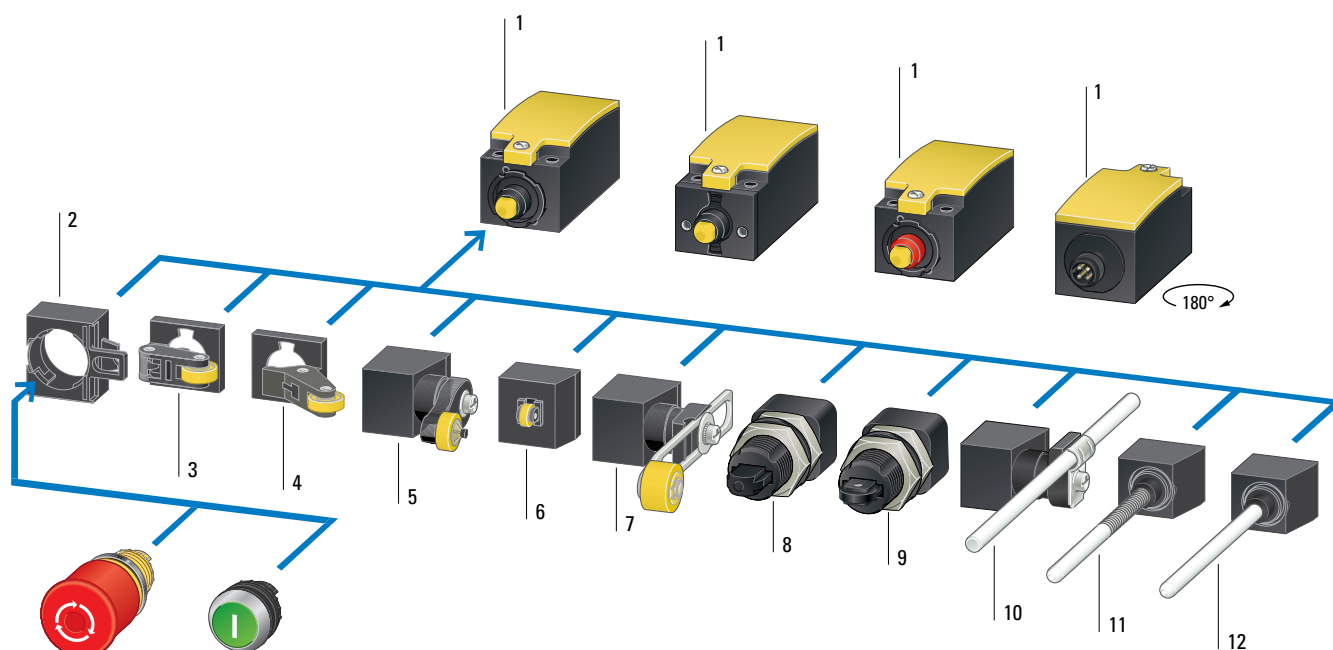
- Non-contact: durable, easy to install, can also handle doors or flaps that don't close precisely, low maintenance
- High degree of protection (IP67, IP69): easy to clean, rugged and reliable
- Symmetrical enclosures: easy mounting, low inventory levels
- 2 or 3 switching contacts: suitable for many different applications
- Potential-free contacts: easy connection
- SILCL3, PLe: safe and reliable
- M12 plug or cable: quick and easy connection



Eaton sensors: versatile and reliable

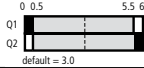
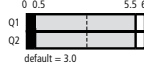
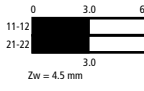
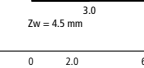
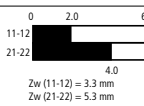
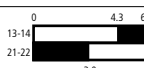
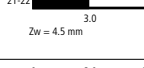
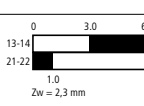
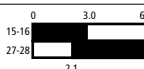
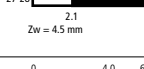
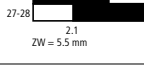
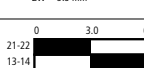
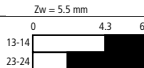
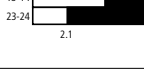
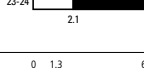
Eaton's inductive and optical sensors are available in many designs and versions and offer maximum reliability.

- Rugged construction
- Nine different series of inductive sensors are available
- E59 AccuProx with analog output
- E56 Pancake with a nominal range of 100 mm
- Opposed, retro-reflective and diffused photoelectric sensors, and more
- Perfect Prox technology for unparalleled background suppression
- The large signal reserve prevents failures and downtime and prolongs maintenance intervals



- 1 LS, LSM base device
- 2 Mounting clamp
- 3 Roller lever
- 4 Angled roller lever
- 5 Rotary lever
- 6 Roller plunger

- 7 Adjustable roller lever
- 8 Rounded plunger, center fixing
- 9 Roller plunger, center fixing
- 10 Actuating rod
- 11 Spring-rod actuator
- 12 Actuating rod

	Contact configuration ☉ Safety function implemented with positive opening as per IEC/EN 60947-5-1 N/O = normally open N/C = normally closed	Contact travel ■ = contact closed □ = contact open Contact diagram	Enclosure	Cage Clamp ¹⁾ Part no. Article no.	Screw terminal Part no. Article no.	
Base device, expandable						
Operating heads → Page 4/17						
With electronically adjustable operating point, IP66, IP67						
Optical status indicator, comparable with positive opening function, conditionally short-circuit-proof, restart after reset						
	1 N/O	1 N/C		Insulated material	LSE-11 266121	
	-	2 N/C		Insulated material	LSE-02 266122	
Rounded plunger, IP66, IP67						
	-	2 N/C ☉		Insulated material	LS-02 266107	LS-S02 106729
	-	2 N/C ☉		Metal	LSM-02 266142	
-	2 N/C ☉		Insulated material	LS-02A 116702	LS-S02A 116703	
	1 N/O	1 N/C ☉		Insulated material	LS-11 266109	LS-S11 106783
	1 N/O	1 N/C ☉		Metal	LSM-11 266144	
	1 N/O	1 N/C ☉		Insulated material	LS-11A 116704	LS-S11A 116705
	1 N/O	1 N/C ☉		Insulated material	LS-11D 266114	LS-S11D 106791
	1 N/O	1 N/C ☉		Metal	LSM-11D 266149	
	1 N/O	1 N/C ☉		Insulated material	LS-11DA 292361	LS-S11DA 106795
	1 N/O	1 N/C ☉		Metal	LSM-11DA 292363	
	1 N/O	1 N/C ☉		Insulated material	LS-11S 266105	LS-S11S 106798
	1 N/O	1 N/C ☉		Metal	LSM-11S 266140	
	2 N/O	-		Insulated material	LS-20 266120	LS-S20 106808
	2 N/O	-		Metal	LSM-20 266155	
	2 N/O	-		Insulated material	LS-20A 292362	LS-S20A 106810
	2 N/O	-		Metal	LSM-20A 100051	
	2 N/O	-		Insulated material	LS-20B 116706	

Notes

¹⁾ Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH, 32432 Minden, Germany
Accessories for the Cage Clamp terminals from Wago:
comb-style jumper bar, gray, Wago article no. 264-402

Contacts			Enclosure	Snap-action contact	Connection ^{type 1)}		Screw terminal	
☉ Safety function implemented with positive opening as per IEC/EN 60947-5-1 N/O = normally open N/C = normally closed		Part no.			Article no.	Part no.	Article no.	
Complete devices								
Roller plunger, IP66, IP67								
	1 N/O	1 N/C ☉	Insulated material	-	LS-11/P	266112	LS-S11/P	106788
	1 N/O	1 N/C ☉	Metal	-	LSM-11/P	266147		
	1 N/O	1 N/C ☉	Insulated material	yes	LS-11S/P	266118	LS-S11S/P	106801
	1 N/O	1 N/C ☉	Metal	yes	LSM-11S/P	266153		
Spring-rod actuator IP66, IP67								
Not to be used as a safety position switch								
	1 N/O	1 N/C	Insulated material	yes	LS-11S/S	266104	LS-S11S/S	106805
	1 N/O	1 N/C	Metal	yes	LSM-11S/S	266139		
Roller lever IP66, IP67								
long								
	-	2 N/C ☉	Insulated material	-	LS-02/L	266108	LS-S02/L	106781
	-	2 N/C ☉	Metal	-	LSM-02/L	266143		
	1 N/O	1 N/C ☉	Insulated material	-	LS-11/L	266110	LS-S11/L	106785
	1 N/O	1 N/C ☉	Metal	-	LSM-11/L	266145		
	1 N/O	1 N/C ☉	Insulated material	yes	LS-11S/L	266116	LS-S11S/L	106800
	1 N/O	1 N/C ☉	Metal	yes	LSM-11S/L	266151		
short								
	1 N/O	1 N/C ☉	Insulated material	-	LS-11/LS	290173	LS-S11/LS	106787
	1 N/O	1 N/C ☉	Insulated material	-	LS-11D/LS	290174	LS-S11D/LS	106794
large								
	1 N/O	1 N/C ☉	Insulated material	-	LS-11/LB	290175	LS-S11/LB	106786
Rotary lever IP66, IP67								
	1 N/O	1 N/C ☉	Insulated material	-	LS-11/RL	266111	LS-S11/RL	106789
	1 N/O	1 N/C ☉	Metal	-	LSM-11/RL	266146		
	1 N/O	1 N/C ☉	Insulated material	yes	LS-11S/RL	266117	LS-S11S/RL	106802
	1 N/O	1 N/C ☉	Metal	yes	LSM-11S/RL	266152		
Adjustable roller lever IP66, IP67								
	1 N/O	1 N/C ☉	Insulated material	-	LS-11/RLA	266113	LS-S11/RLA	106790
	1 N/O	1 N/C ☉	Metal	-	LSM-11/RLA	266148		
	1 N/O	1 N/C ☉	Insulated material	yes	LS-11S/RLA	266119	LS-S11S/RLA	106803
	1 N/O	1 N/C ☉	Metal	yes	LSM-11S/RLA	266154		
Actuating rod IP66, IP67								
	1 N/O	1 N/C ☉	Insulated material	yes	LS-11S/RR	266106	LS-S11S/RR	106804
	1 N/O	1 N/C ☉	Metal	yes	LSM-11S/RR	266141		

Notes

¹⁾ Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany.
Accessories for the Cage Clamp terminals from Wago: comb-style jumper bar, gray, Wago article no. 264-402

		Contacts ⊕ = Safety function implemented with positive opening as per IEC/EN 60947-5-1 N/O = normally open N/C = normally closed	Snap-action contact	Contact travel ■ = contact closed □ = contact open Contact diagram	Cage Clamp ¹⁾ Part no. Article no.	Screw terminal Part no. Article no.
Base device, expandable						
-40 - +70, IP65, insulated material						
	Rounded plunger	-	2 N/C ⊕	-		
		-	2 N/C ⊕	-	LS-02-CC 176880	LS-S02-CC 176890
		-	2 N/C ⊕	-	LS-02A-CC 176886	LS-S02A-CC 176895
		1 N/O	1 N/C ⊕	-	LS-11-CC 176879	LS-S11-CC 176889
		1 N/O	1 N/C ⊕	-	LS-11A-CC 176887	LS-S11A-CC 176896
		1 N/O	1 N/C ⊕	-	LS-11D-CC 176882	LS-S11D-CC 176891
		1 N/O	1 N/C ⊕	-	LS-11DA-CC 176884	LS-S11DA-CC 176893
		1 N/O	1 N/C ⊕	-	LS-11S-CC 176881	LS-S11S-CC 144118
		2 N/O	-	-	LS-20-CC 176883	LS-S20-CC 176892
		2 N/O	-	-	LS-20A-CC 176885	LS-S20A-CC 176894
		2 N/O	-	-	LS-20B-CC 176888	LS-S20B-CC 176897
Base device, expandable						
With integrated M12 plug, IP66						
	Rounded plunger	-	2 N/C ⊕	-		
		1 N/O	1 N/C ⊕	-	LS-02-M12A 178128	
		1 N/O	1 N/C ⊕	-	LS-11-M12A 178129	
		1 N/O	1 N/C ⊕	-	LS-11D-M12A 178130	
		1 N/O	1 N/C ⊕	-	LS-11DA-M12A 178131	
		1 N/O	1 N/C ⊕	-	LS-11S-M12A 178132	
		2 N/O	-	-	LS-20-M12A 178133	
		2 N/O	-	-	LS-20A-M12A 178134	
		2 N/O	-	-	LS-20B-M12A 178135	

Notes

¹⁾ Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany.
Accessories for the Cage Clamp terminals from Wago: comb-style jumper bar, gray, Wago article no. 264-402

	Contact configuration ⊖ = Safety function implemented with positive opening as per IEC/EN 60947-5-1 N/O = normally open N/C = normally closed		Snap-action contact	Contact travel ■ = contact closed □ = contact open Contact diagram	Cage Clamp ¹⁾ Part no.	Article no.
Complete device						
With integrated M12 plug, IP66						
Roller plunger	1 N/O	1 N/C ⊖	-		LS-11/P-M12A	178137
	1 N/O	1 N/C ⊖	yes		LS-11S/P-M12A	178141
Spring-rod actuator Not to be used as a safety position switch	1 N/O	1 N/C	yes		LS-11S/S-M12A	178145
Roller lever	1 N/O	1 N/C ⊖	-		LS-11/L-M12A	178136
	1 N/O	1 N/C ⊖	yes		LS-11S/L-M12A	178140
Rotary lever	1 N/O	1 N/C ⊖	-		LS-11/RL-M12A	178138
	1 N/O	1 N/C ⊖	yes		LS-11S/RL-M12A	178142
Adjustable roller lever	1 N/O	1 N/C ⊖	-		LS-11/RLA-M12A	178139
	1 N/O	1 N/C ⊖	yes		LS-11S/RLA-M12A	178143
Actuating rod	1 N/O	1 N/C ⊖	yes		LS-11S/RR-M12A	178144

Notes

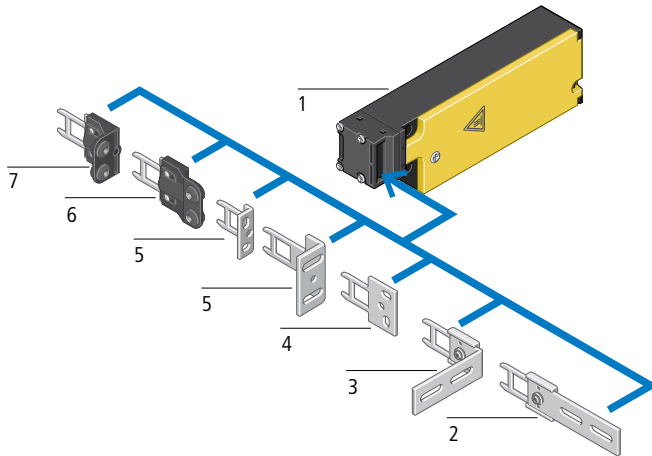
¹⁾ Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany.
Accessories for the Cage Clamp terminals from Wago: comb-style jumper bar, gray, Wago article no. 264-402

		Insulated material Part no. Article no.	Metal Part no. Article no.	Notes
Rounded plunger, center fixing				
	For mounting in enclosure wall or mounting plate, with drill hole M18 x 1	LS-XZS 114024		The operating head can be rotated at 90° intervals to adapt to the specified approach direction.
Roller plunger, center fixing				
	For mounting in enclosure wall or mounting plate, with drill hole M18 x 1	LS-XZRS 114025		
Roller plunger				
	-	LS-XP 266125	LSM-XP 266158	
Roller lever				
	large	LS-XLB 290178		
	short	LS-XLS 290177		
	long	LS-XL 266123	LSM-XL 266156	
Angled roller lever				
	-	LS-XLA 266124	LSM-XLA 266157	
Rotary lever				
	-	LS-XRL 266126	LSM-XRL 266159	
Adjustable roller lever				
	Ø 18 mm	LS-XRLA 266127	LSM-XRLA 266160	
	Ø 30 mm	LS-XRLA30 266128		
	Ø 40 mm roller: rubber	LS-XRLA40R 266130		
	Ø 40 mm	LS-XRLA40 266129		
Actuating rod				
	Rod: insulated material	LS-XRR 266131	LSM-XRR 266161	
	Rod: metal	LS-XRRM 266132	LSM-XRRM 266162	
Spring-rod actuator				
	Not to be used as a safety position switch Only permissible with snap-action contact	LS-XS 266133	LSM-XS 266163	
Actuating rod				
	-	LS-XOR 290190		

Position switches

LS-...-ZBZ safety position switches

Moeller series



- 1 Base device
- 2 Flat flexible actuator
- 3 Angled flexible actuator
- 4 Flat actuator
- 5 Angled actuator
- 6 Flat compensating actuator
- 7 Angled compensating actuator

Actuators must be ordered separately → online catalog

Contacts		Rated control voltage for magnetic system U _s	Part no. Article no.	Notes
⊖ = Safety function implemented with positive opening according to IEC/EN 60947-5-1				
N/O = normally open	N/C = normally closed	V		
Base devices with spring-powered interlock (closed-circuit principle) IP65				
	1 N/O	1 N/C ⊖	24 V DC	The switch must never be used as a mechanical stop! The operating head can be manually rotated in 90° intervals to adapt to the specified actuation level. If the actuator inserted, the N/O contact is open and the N/C contact is closed. For IP65 degree of protection, use the V-M20 (206910) cable glands with an entry thread length of max. 9 mm. In the event of a power failure (e.g., during commissioning), the device can be opened with a screwdriver. The auxiliary release mechanism must be sealed! → installation leaflet IL 05208005Z
	-	2 N/C ⊖	24 V DC	
	1 N/O	1 N/C ⊖	120 V 50/60 Hz	
	-	2 N/C ⊖	120 V 50/60 Hz	
	1 N/O	1 N/C ⊖	230 V 50/60 Hz	
	-	2 N/C ⊖	230 V 50/60 Hz	
Base devices with magnet-powered interlock (open-circuit principle) IP65				
	1 N/O	1 N/C ⊖	24 V DC	The switch must never be used as a mechanical stop! The operating head can be manually rotated in 90° intervals to adapt to the specified actuation level. If the actuator inserted, the N/O contact is open and the N/C contact is closed. For IP65 degree of protection, use the V-M20 (206910) cable glands with an entry thread length of max. 9 mm.
	-	2 N/C ⊖	24 V DC	
	1 N/O	1 N/C ⊖	120 V 50/60 Hz	
	-	2 N/C ⊖	120 V 50/60 Hz	
	1 N/O	1 N/C ⊖	230 V 50/60 Hz	
	-	2 N/C ⊖	230 V 50/60 Hz	

Contacts		Approval mark	Connection type	Part no. Article no.	Notes	
⊖ Safety function implemented with positive opening according to IEC/EN 60947-5-1						
N/O = normally open	N/C = normally closed					
Safety position switches LS-...-ZB, IP65						
	-	2 N/C ⊖		Cage Clamp	LS-02-ZB 106817	The switch must never be used as a mechanical stop! Actuator can be re-positioned for horizontal or vertical mounting. The operating heads can be rotated in 90° intervals to adapt to the specified actuation level. If the actuator inserted, the N/O contact is open and the N/C contact is closed. For IP65 degree of protection, use the V-M20 (206910) cable glands with an entry thread length of max. 9 mm.
	-	2 N/C ⊖		Screw terminal	LS-S02-ZB 106874	
	1 N/O	1 N/C ⊖	Cage Clamp	LS-11-ZB 106819		
	1 N/O	1 N/C ⊖	Screw terminal	LS-S11-ZB 106876		
	1 N/O	1 N/C ⊖	Cage Clamp	LS-11S-ZB 106870		
	1 N/O	1 N/C ⊖	Screw terminal	LS-S11S-ZB 106877		

Contacts			Part no.	Article no.	Part no.	Article no.	
N/O = normally open N/C = normally closed							
Non-contact safety switch							
IP67, IP69 Reed contacts							
	-	2 N/C	3 m connection cable		Plug connector M12 x 1		
	1 N/O	1 N/C					
	1 N/O	2 N/C					
	-	2 N/C	RS2-02-C3 177286		RS2-02-Q4 177289		
	1 N/O	1 N/C			RS2-11-Q4 177290		
	1 N/O	2 N/C			RS2-12-Q6 177291		
	-	2 N/C	10 m connection cable		RS2R-02-Q4 177295		
	1 N/O	1 N/C					RS2R-11-Q4 177296
	1 N/O	2 N/C					RS2R-12-Q6 177297
	-	2 N/C	RS2-02-C10 177300				
	1 N/O	1 N/C					RS2-11-C10 177301
	1 N/O	2 N/C					RS2-12-C10 177302
	-	2 N/C					RS2R-02-C10 177303
	1 N/O	1 N/C					RS2R-11-C10 177304
	1 N/O	2 N/C					RS2R-12-C10 177305

	Design (outer dimensions) mm	Rated switching distance S _n mm	Installation type	Contacts N/C = normally closed N/O = normally open	Degree of protection	Part no.	Article no.	
E52 Cube series 2 LEDs for current and output status Housing adapter, 4-wire, plug connector M12 x 1, Rated operating voltage U _e 10 - 48 V DC Switching type: NPN, PNP Zinc/Insulated material								
	40 x 40 x 40	15	flush	1 N/C	1 N/O	IP67	E52Q-DL15SAD01	135804
		15	not flush				E52Q-DL15UAD01	135805
		20	flush				E52Q-DL20SAD01	135806
		20	not flush				E52Q-DL20UAD01	135807
		25					E52Q-DL25UAD01	135808
		30					E52Q-DL30UAD01	135809
		35					E52Q-DL35UAD01	135810
		40					E52Q-DL40UAD01	135811
E56 Pancake series 2 LEDs for current and output status 3-wire, plug connector M12 x 1, Rated operating voltage U _e 10 - 48 V DC Switching type: NPN, PNP Insulated material								
	79 x 79 x 39	40	flush	1 N/C	1 N/O	IP67	E56ADL40SAD01	136234
	79 x 79 x 39	40	not flush				E56ADL40UAD01	136235
	109 x 110 x 41	70	not flush				E56BDL70UAD01	136236
	171.5 x 171.5 x 67.4	100	not flush				E56CDL100UAD01	136237
E57G General Purpose series LED for output status 3-wire, plug connector M12 x 1, Rated operating voltage U _e 10 - 30 V DC Switching type: PNP stainless steel								
	M8 x 1	1	flush	-	1 N/O	IP67	E57-08GS01-GDB	135862
		3	flush				E57-08GE03-GDB	135854
		2	not flush				E57-08GU02-GDB	135866
		6	not flush				E57-08GE06-GDB	135858
	M12 x 1	2	flush	-			E57G-12SPN2-Q	197688
		4	flush				E57G-12SPN4-Q	197690
		4	not flush				E57G-12UPN4-Q	197704
		8	not flush				E57G-12UPN8-Q	197706
	M18 x 1	5	flush	-			E57G-18SPN5-Q	197720
		8	flush				E57G-18SPN8-Q	197722
		8	not flush				E57G-18UPN8-Q	197738
		12	not flush				E57G-18UPN12-Q	197736
	M30 x 1.5	10	flush	-			E57G-30SPN10-Q	197752
		15	flush				E57G-30SPN15-Q	197754
		15	not flush				E57G-30UPN15-Q	197768
		22	not flush				E57G-30UPN22-Q	197770

	Design (outer dimensions) mm	Rated switching distance S_n mm	Type of mounting	Contacts N/C = normally closed N/O = normally open	Degree of protection	Part no.	Article no.
E57 miniature series (inductive)							
3-wire, 2 m connection cable, Rated operating voltage U_o 10 - 30 V DC Switching type: PNP Stainless steel							
	M5 x 1	0.8	flush	-	1 N/O	IP67	E57EAL5T111SP 136241
	Ø 4	0.8	flush	-			E57EAL4T111SP 136239
	Ø 6.5	1	flush	-			E57EAL6T111SP 136245
	Ø 6.5	2	not flush	-			E57EAL6T111EP 136244
iProx series (inductive)							
3-wire, plug connector M12 x 1, Rated operating voltage U_o 6 - 48 V DC Switching type: NPN, PNP Stainless steel							
	M12 x 1	4	flush	-	1 N/O	IP67, IP69	E59-M12A105D01-D1 136207
	M18 x 1	8	flush	-			E59-M18A108D01-D1 136215
	M18 x 1	18	not flush	-			E59-M18C116D01-D1 136219
	M30 x 1.5	15	flush	-			E59-M30A115D01-D1 136223
Programming cable for use with iProx							
	-	-	-	-	-	-	E59RP1 136229
Programming software for use with iProx							
	-	-	-	-	-	-	E59SW1 136230
E53 series (capacitive)							
4-wire Plug connector M12 x 1 Rated operational voltage: U_o 10 - 48 V DC Switching type: NPN, PNP Zinc/insulated material							
	M18 x 1	8	flush	1 N/C	-	IP65	E53KBL18T111SD 134802
		8	flush	-	1 N/O		E53KAL18T111SD 134768
		15	not flush	1 N/C	-		E53KBL18T111ED 134801
		15	not flush	-	1 N/O		E53KAL18T111ED 134767
	M30 x 1.5	20	flush	1 N/C	-		E53KBL30T111SD 134814
		20	flush	-	1 N/O		E53KAL30T111SD 134780
		25	not flush	1 N/C	-		E53KBL30T111ED 134813
		25	not flush	-	1 N/O		E53KAL30T111ED 134779
	Ø 34	25	flush	1 N/C	-		E53KBL34T111SD 134824
		25	flush	-	1 N/O		E53KAL34T111SD 134790
		35	not flush	1 N/C	-		E53KBL34T111ED 134823
		35	not flush	-	1 N/O		E53KAL34T111ED 134789

Function	Description	Rated switching distance S_n mm	Type of light	Switching principle	Part no.	Article no.	
Comet series							
4-wire, Rated operating voltage U_o 10 - 30 V DC Switching type: NPN, PNP Insulated material plug connector M12 x 1 Degree of protection: IP67							
	Retro-reflective sensor	Beam: straight With background suppression (Perfect Prox)	50	Visible red	Adjustable bright/dark switching	13104AQD07	135605
		Beam: straight Can be expanded with fiber optic cable →Accessories	200	Infrared		13106AQD07	135621
		Beam: straight With background suppression (Perfect Prox)	225			13103AQD07	135597
		Beam: straight Can be expanded with fiber optic cable →Accessories	610			13100AQD07	135581
	Reflexphotoelectric sensor	For combination with reflector Non-polarized Beam: straight	7600	Visible red		14102AQD07	135657
	Thru-beam photoelectric sensor	Detector (for combination with source) Beam: straight	24000			12102AQD07	135577
		Source (for combination with detector) Beam: straight	24000		-	11102AQD07	135565
E58 Harsh Duty series							
4-wire, Rated operating voltage U_o 10 - 30 V DC Switching type: NPN, PNP Stainless steel Plug connector M12 x 1 Degree of protection: IP69							
	Diffused sensor	With background suppression (Perfect Prox)	50	Visible red	Light switching	E58-18DP50-HLP	135673
			50		Dark switching	E58-18DP50-HDP	135671
			100		Light switching	E58-18DP100-HLP	135667
			100		Dark switching	E58-18DP100-HDP	135665
			280		Dark switching	E58-30DPS280-HDP	135681
			280		Light switching	E58-30DPS280-HLP	135683
	Reflex photoelectric sensor	For combination with reflector	18000		Dark switching	E58-30RS18-HDP	135689
	Reflex photoelectric sensor		18000		Light switching	E58-30RS18-HLP	135691
	Thru-beam photoelectric sensor	Source (for combination with detector)	250000	Visible red	-	E58-30TS250-HAP	135697
		Detector (for combination with source)	250000	-	Dark switching	E58-30TD250-HDP	135693
			250000	-	Light switching	E58-30TD250-HLP	135695
E67 Long Range series							
4-wire, Rated operating voltage U_o 18 - 30 V DC Switching type: NPN, PNP Plug connector M12 x 1 Degree of protection: IP67							
	Diffused sensor	With background suppression (Perfect Prox)	1000	Infrared	Light switching	E67-LRDP100-HLD	100548
		With background suppression (Perfect Prox)	1000		Dark switching	E67-LRDP100-HDD	100547

Function	Description	Rated switching distance S_n mm	Type of light	Switching mechanism	Part no.	Article no.	
E65 SM series							
4-wire, Rated operating voltage U_o 10 - 30 V DC Switching type: NPN, PNP Insulated material Plug connector M12 x 1 Degree of protection: IP65 and IP66							
	Diffused sensor	With background suppression (Perfect Prox)	100	-	Light switching	E65-SMPP100-HLD	135713
		With background suppression (Perfect Prox)	100	-	Dark switching	E65-SMPP100-HDD	135711
	Thru-beam photoelectric sensor	Source (for combination with detector)	15000	-	Light switching	E65-SMTD15-HLD	135733
		Detector (for combination with source)	15000	-	Dark switching	E65-SMTD15-HDD	135731
		Source (for combination with detector)	15000	-	-	E65-SMTS15-HAD	135735
E71 NanoView series							
4-wire, Rated operating voltage U_o 10 - 30 V DC Switching type: PNP Insulated material Rectangular (20 x 12 x 32) Degree of protection: IP66/IP67							
	Diffused sensor	Beam: focused, straight	100	Visible red	Adjustable light/dark switching	E71-FFDP-M8	100518
		Beam: straight	350	Infrared		E71-SDP-M8	100530
2 m connection cable 	Reflex photoelectric sensor	For combination with reflector	800	Visible red		E71-COP-M8	100428
		Detection of transparent objects					
Plug connector M8 x 1 	Thru-beam photoelectric sensor	Detector (for combination with source)	1500	Infrared		E71-NTBS-CA	100521
Plug connector M8 x 1 	Reflex photoelectric sensor	Polarized light	2500	Visible red		E71-PRP-M8	100526
		Thru-beam photoelectric sensor	Detector (for combination with source)	6000	Infrared	E71-TBRP-M8	100534
E75/E76 IntelliView series							
8-wire, Rated operating voltage U_o 10 - 30 V DC Switching type: PNP Plug connector M12 x 1 Degree of protection: IP67							
	Diffused sensor	Color sensing 3 NO PNP outputs	450	Infrared	-	E76-CLRMKP-M12	166927
Typeoutput side	Typeinput side	Length mm	For use with		Part no.	Article no.	
Connecting cables							
	Cable end, open	Coupling, straight	2000	DC sensors, 4-pole, 2-, 3- or 4-wire connector, M12	CSDS4A4CY2202	136292	
			5000		CSDS4A4CY2205	136294	
			10000		CSDS4A4CY2210	136296	
	Coupling, angled	2000	CSDR4A4CY2202		136279		
		5000	CSDR4A4CY2205		136282		
		10000	CSDR4A4CY2210		136284		
	Plug, straight	Coupling, straight	1500		CSDS4A4CY2201.5-D	136316	
			3000		CSDS4A4CY2203-D	136293	
			5000		CSDS4A4CY2205-D	136295	
	Plug, angled	Coupling, straight	1500		CSDR4A4CY2201.5-D	136313	
			3000		CSDR4A4CY2203-D	136315	
			5000		CSDR4A4CY2205-D	136283	