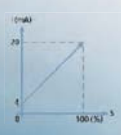


Position switches LS, proximity switches LS, pressure switches MCS

Moeller's safety/position switches are used everywhere where positions must be exactly registered. The LSE-Titan electronic safety/position switch allows the switching point to be set quickly and without complication. Proximity switches in various designs switch reliably and without contact.



Safety position switches LS-Titan

- Positions reliably registered
- Cage Clamp and screw terminals
- Metal or insulated
- Positively opening contacts
- Simple mounting of the various operating heads

Page 3/2

Electronic safety position switches LSE-Titan

- Switching point simply and variably adjustable
- Analogue 0-10 V DC or 4-20 mA
- Cage Clamp

Page 3/3



Proximity switches LSI, LSC, LSO

- Non-contact, safe switching: inductive, capacitive and optical
- Various types of construction

Page 3/15



Safety door switches safety position switches

- Safety for personnel and processes
- Safety and interlocking of protective doors
- Safe switch off in emergencies
- Prevent tampering

Page 3/10

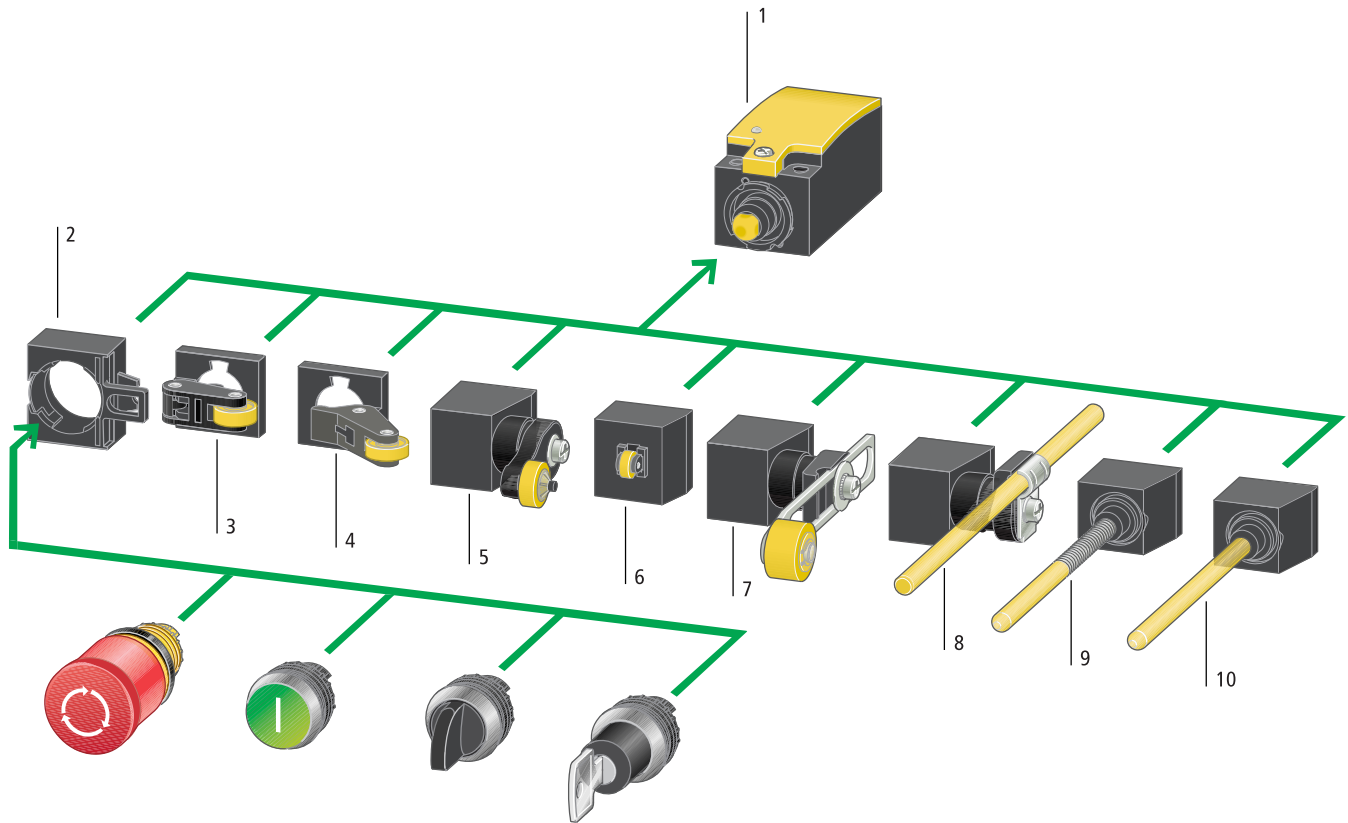


Pressure switches MCSN/MCS

- For pressure monitoring of liquids and gases e.g. compressed air
- Two adjustable switching points (ON an OFF switching points)
- 1 pole or 3 pole for actuation of control circuits or load switching

Page 3/18

Position switches		Safety switches		Proximity switches Pressure switches	
	Page		Page		Page
System overview	3/2	System overview	3/10	Ordering	3/15
Ordering	3/3	Ordering	3/10	Inductive proximity switches	3/15
Complete units	3/3	Basic devices	3/12	Capacitive and optical proximity switches	3/16
Operating heads	3/8	Actuators, accessories	3/13	Accessories	3/17
Accessories	3/9	Door flap/hinge-operated switches, position switches	3/14	Pressure switches with main contacts	3/18
Engineering	3/21	Technical data	3/27	Pressure switches with auxiliary contacts	3/19
Contact travel diagrams	3/21	Dimensions	3/35	Accessories	3/20
Technical data	3/25	Engineering	3/24	Contact diagrams, changing the active area	3/24
Dimensions	3/33	Technical data	3/28	Inductive proximity switch	3/28
		Capacitive proximity switches	3/30	Optical proximity switches	3/31
		Pressure switches	3/32	Pressure switches	3/32
		Dimensions	3/39	Inductive proximity switches	3/39
				Capacitive and optical proximity switches	3/40
				Pressure switches	3/41



LS, LSM

Basic devices

Basic device	1
according to EN 50047	
With screw-on cover	
Contacts: 1NO/1NC, 2NO, 2NC	
Cage Clamp, screw terminal	
As snap-action or standard-action switch	
As electronic snap-action switch, (individually adjustable)	
As 4-20 mA analog signal encoder	
As 0-10 V DC analog signal encoder	
→ page 3/3	

Operating heads

Can be rotated by 90°


Fixing adapter	2
Actuation by front element RMQ-Titan	
Roller lever	3
For one-sided operation with higher operating speed	
Angled roller lever	4
For actuation along the unit axis	
Rotary lever	5
For actuation from the side, for pendulum movements	
→ page 3/6	

Operating heads

Can be rotated by 90°


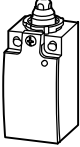

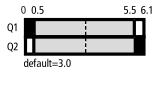

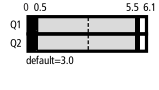
Roller plunger	6
For actuation from the side with low actuating force	
Adjustable roller lever	7
For length adjustment as required	
Actuating rod	8
On conveyor belts for lightweight goods	
Spring-rod	9
For flexible actuation from all sides	
Actuating rod	10
Withdrawable mechanism from front	
→ page 3/6	

LS, LSM product features

- Modular system
- IP65 and IP66 degree of protection
-  (except LSM)
- Personnel protection
- Positive operation
- ⚡ Safety function by positive opening according to IEC/EN 60947-5-1 Up to category 4 according to EN 954-1
- Suitable for use with electronic devices to IEC/EN 61131-2
- Devices for world markets

Notes

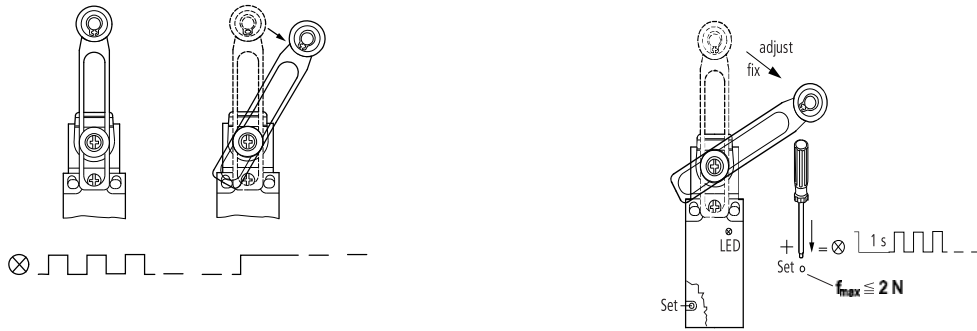
Do not use as a mechanical stop/shipping brace. Cage Clamp is a registered trademark of Wago Kontakttechnik, 32423 Minden, Germany.

Contacts		Contact sequence	Contact travel	Colour of enclosure cover	Insulated material	Price	Std. pack
N/O = Normally open N/C = Normally closed ⊕ = positive opening safety function to IEC/EN 60947-5-1			■ = contact closed □ = contact open ▨ = setting range		Part no. Article no.	see price list	
N/O = Normally open	N/C = Normally closed						
IP66, IP67 operating point electronically adjustable							
Basic unit Visible status display, comparable with positive opening function Conditional short-circuit, restart after reset							
							
	1 N/O	1 N/C			Yellow	LSE-11 266121	1
		2 N/C			Yellow	LSE-02 266122	1 off

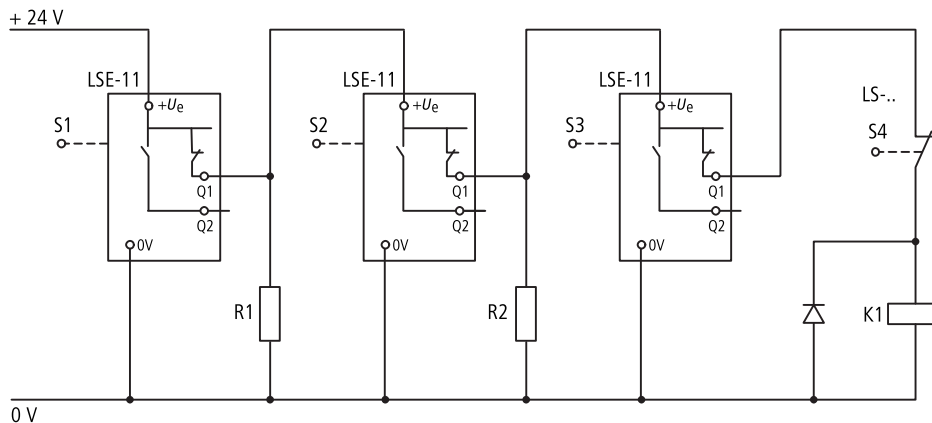
Position switch



Notes LSE-11 and LSE-02: Individual operating point adjustment:

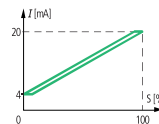
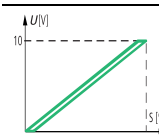


circuit example for series connection:
LSE-11 and LSE-02 can be used in safety circuits



S1 is connected to 24 V DC
S2, S3 each switch with a delay of 0.7 s
R1, R2 e.g. series element M22-XLED60 (2820 Ω/0.5 W)

Analog electronic position switches IP66, IP67

Basic unit Visual status indication Q1 = analog output Q2 = diagnostics output (the diagnostics output has a 0 V signal in the event of a fault.)	4 – 20 mA		Yellow	LSE-AI 269461	1 off
	0 – 10 V		Yellow	LSE-AU 274096	1 off

Auxiliary contacts: ⊕ = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence

Contact travel

■ = contact closed
□ = contact open

Colour of enclosure cover

Housing

Terminal connection

Part no. Article no.

Price see price list

Std. pack

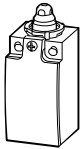
N/O = Normally open
N/C = Normally closed

Rounded plunger, IP66, IP67

Basic unit

Front fixing, non expandable

Position switch



Configuration	Contact sequence	Contact travel diagram	Colour	Housing	Terminal connection	Part no. Article no.	Price	Std. pack
2 N/C ⊕	L11 L21 112 122	0 3.0 6.1 11-12 21-22 NC NC Zw = 4.5 mm	Yellow	Insulated material	Cage Clamp	LS-02/F 292365		1 off
2 N/C ⊕			Yellow	Insulated material	Screw terminal	LS-S02/F 106780		1 off
2 N/C ⊕			Yellow	Metal	Cage Clamp	LSM-02/F 292371		1 off
1 N/O 1 N/C ⊕	L13 L21 113 122	0 4.3 6.1 13-14 21-22 NO NC Zw = 4.5 mm	Yellow	Insulated material	Cage Clamp	LS-11/F 290176		1 off
1 N/O 1 N/C ⊕			Yellow	Insulated material	Screw terminal	LS-S11/F 106784		1 off
1 N/O 1 N/C ⊕			Yellow	Metal	Cage Clamp	LSM-11/F 292372		1 off
1 N/O 1 N/C ⊕	L27 L15 127 116	0 3.0 6.1 15-16 27-28 NC NO Zw = 4.5 mm	Yellow	Insulated material	Cage Clamp	LS-11D/F 292366		1 off
1 N/O 1 N/C ⊕			Yellow	Insulated material	Screw terminal	LS-S11D/F 106792		1 off
1 N/O 1 N/C ⊕			Yellow	Metal	Cage Clamp	LSM-11D/F 292373		1 off
1 N/O 1 N/C ⊕	L27 L15 127 116	0 4.0 6.1 15-16 27-28 NC NO Zw = 5.5 mm	Yellow	Insulated material	Cage Clamp	LS-11DA/F 292369		1 off
1 N/O 1 N/C ⊕			Yellow	Insulated material	Screw terminal	LS-S11DA/F 106796		1 off
1 N/O 1 N/C ⊕			Yellow	Metal	Cage Clamp	LSM-11DA/F 292376		1 off
1 N/O 1 N/C ⊕	L13 L21 113 122	Snap-action contact 0 3.0 6.1 21-22 13-14 21-22 13-14 Zw = 5.5 mm	Yellow	Insulated material	Cage Clamp	LS-11S/F 292367		1 off
1 N/O 1 N/C ⊕			Yellow	Insulated material	Screw terminal	LS-S11S/F 106799		1 off
1 N/O 1 N/C ⊕			Yellow	Metal	Cage Clamp	LSM-11S/F 292374		1 off
2 N/O	L13 L23 113 124	0 4.3 6.1 13-14 23-24 NO NO Zw = 4.5 mm	Yellow	Insulated material	Cage Clamp	LS-20/F 292368		1 off
2 N/O			Yellow	Insulated material	Screw terminal	LS-S20/F 106809		1 off
2 N/O			Yellow	Metal	Cage Clamp	LSM-20/F 292375		1 off
2 N/O	L13 L23 113 124	0 2.1 6.1 13-14 23-24 NO NO Zw = 4.5 mm	Yellow	Insulated material	Cage Clamp	LS-20A/F 292370		1 off
2 N/O			Yellow	Insulated material	Screw terminal	LS-S20A/F 106811		1 off
2 N/O			Yellow	Metal	Cage Clamp	LSM-20A/F 292377		1 off
Expandable with operating heads								
2 N/C ⊕	L11 L21 112 122	0 3.0 6.1 11-12 21-22 NC NC Zw = 4.5 mm	Yellow	Insulated material	Cage Clamp	LS-02 266107		10 off
2 N/C ⊕			Black	Insulated material	Cage Clamp	LS-02-SW 272009		10 off
2 N/C ⊕			Yellow	Insulated material	Screw terminal	LS-S02 106729		10 off
2 N/C ⊕			Black	Insulated material	Screw terminal	LS-S02-SW 106782		10 off
2 N/C ⊕			Yellow	Metal	Cage Clamp	LSM-02 266142		2 off

Notes Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany.

Position switch

Auxiliary contacts: ⊕ = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence

Contact travel

■ = contact closed
□ = contact open

Colour of enclosure cover

Housing

Terminal connection

Part no. Article no.

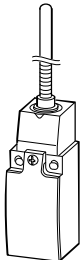

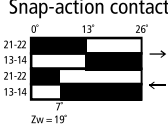
Price see price list

Std. pack

N/O = Normally open
N/C = Normally closed

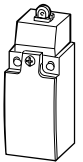

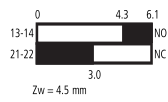


Spring-rod actuator IP66, IP67

Do not use spring-rod actuator as a safety position switch; admissible only with snap-action contact.

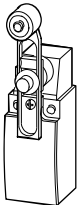

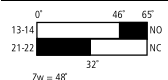

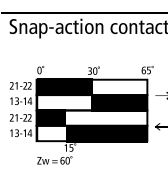
	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11S/S 266104	2 off
	1 N/O	1 N/C ⊕				Insulated material	Screw terminal	LS-S11S/S 106805	2 off
	1 N/O	1 N/C ⊕				Metal	Cage Clamp	LSM-11S/S 266139	2 off

Roller plungers, IP66, IP67


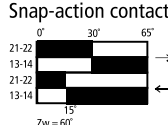
EN 50047 Form C

	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11/P 266112	2 off
	1 N/O	1 N/C ⊕				EN 50047 Form C	Screw terminal	LS-S11/P 106788	2 off
	1 N/O	1 N/C ⊕				Metal EN 50047 Form C	Cage Clamp	LSM-11/P 266147	2 off
	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11S/P 266118	2 off
	1 N/O	1 N/C ⊕				EN 50047 Form C	Screw terminal	LS-S11S/P 106801	2 off
	1 N/O	1 N/C ⊕				Metal EN 50047 Form C	Cage Clamp	LSM-11S/P 266153	2 off



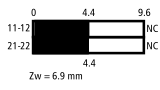

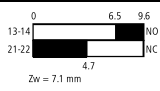

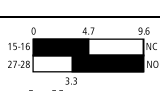



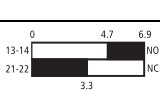



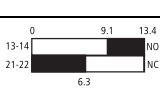
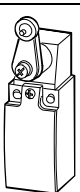

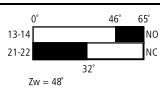


Adjustable roller levers, IP66, IP67

	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11/RLA 266113	2 off
	1 N/O	1 N/C ⊕				Insulated material	Screw terminal	LS-S11/RLA 106790	2 off
	1 N/O	1 N/C ⊕				Metal	Cage Clamp	LSM-11/RLA 266148	2 off
	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11S/RLA 266119	2 off
	1 N/O	1 N/C ⊕				Insulated material	Screw terminal	LS-S11S/RLA 106803	2 off
	1 N/O	1 N/C ⊕				Metal	Cage Clamp	LSM-11S/RLA 266154	2 off

IP66, IP67 actuating rod

	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11S/RR 266106	4 off
	1 N/O	1 N/C ⊕				Insulated material	Screw terminal	LS-S11S/RR 106804	4 off
	1 N/O	1 N/C ⊕				Metal	Cage Clamp	LSM-11S/RR 266141	4 off

Notes Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany.





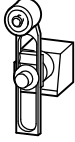
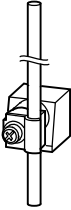
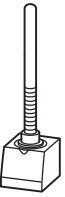


Auxiliary contacts: ⊕ = safety function, by positive opening to IEC/EN 60947-5-1		Contact sequence	Contact travel	Colour of enclosure cover	Housing	Terminal connection	Part no. Article no.	Price see price list	Std. pack	
N/O = Normally open	N/C = Normally closed		■ = contact closed □ = contact open							
Roller lever IP66, IP67										
Long										
	2 N/C ⊕			●	Insulated material	Cage Clamp	LS-02/L 266108		2 off	
	2 N/C ⊕			●	Insulated material	Screw terminal	LS-S02/L 106781		2 off	
	2 N/C ⊕			●	Metal	Cage Clamp	LSM-02/L 266143		2 off	
	1 N/O	1 N/C ⊕			●	Insulated material EN 50047 Form E	Cage Clamp	LS-11/L 266110		2 off
	1 N/O	1 N/C ⊕			●	Insulated material EN 50047 Form E	Screw terminal	LS-S11/L 106785		2 off
	1 N/O	1 N/C ⊕			●	Metal EN 50047 Form E	Cage Clamp	LSM-11/L 266145		2 off
	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11D/L 266115		2 off
	1 N/O	1 N/C ⊕			●	Insulated material	Screw terminal	LS-S11D/L 106793		2 off
	1 N/O	1 N/C ⊕			●	Metal	Cage Clamp	LSM-11D/L 266150		2 off
	1 N/O	1 N/C ⊕		Snap-action contact 	●	Insulated material EN 50047 Form E	Cage Clamp	LS-11S/L 266116		2 off
	1 N/O	1 N/C ⊕			●	Insulated material EN 50047 Form E	Screw terminal	LS-S11S/L 106800		2 off
	1 N/O	1 N/C ⊕			●	Metal EN 50047 Form E	Cage Clamp	LSM-11S/L 266151		2 off
	Short									
	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11/LS 290173		1 off
1 N/O	1 N/C ⊕			●	Insulated material	Screw terminal	LS-S11/LS 106787		1 off	
1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11D/LS 290174		1 off	
1 N/O	1 N/C ⊕			●	Insulated material	Screw terminal	LS-S11D/LS 106794		1 off	
Roller lever, large										
1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11/LB 290175		1 off	
1 N/O	1 N/C ⊕			●	Insulated material	Screw terminal	LS-S11/LB 106786		1 off	
Rotary lever, IP66, IP67										
	1 N/O	1 N/C ⊕			●	Insulated material	Cage Clamp	LS-11/RL 266111	2 off	
	1 N/O	1 N/C ⊕			●	Insulated material	Screw terminal	LS-S11/RL 106789	2 off	
	1 N/O	1 N/C ⊕			●	Metal	Cage Clamp	LSM-11/RL 266146	2 off	
	1 N/O	1 N/C ⊕		Snap-action contact 	●	Insulated material	Cage Clamp	LS-11S/RL 266117	2 off	
	1 N/O	1 N/C ⊕			●	Insulated material	Screw terminal	LS-S11S/RL 106802	2 off	
	1 N/O	1 N/C ⊕			●	Metal	Cage Clamp	LSM-11S/RL 266152	2 off	
Customer specific complete device IP66, IP67										
(*) user-definable customer ID or warehouse No.; up to 10 characters										
					Insulated material		LS-COMBINATION-*266168		1 off	

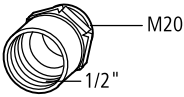


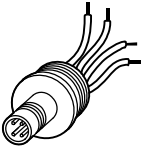

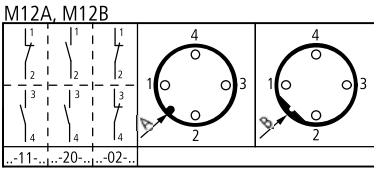

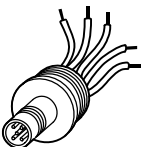

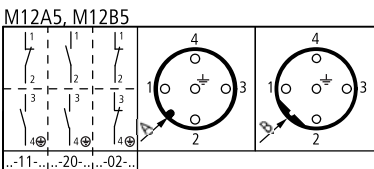

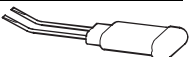
Position switch



Notes Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany.



		Insulated material	Metal	Std. pack	Notes	
		Part no. Article no.	Part no. Article no.			
Operating heads						
Roller plungers						
		LS-XP 266125	LSM-XP 266158	10 off	The operating heads can be rotated in 90° stages to match the specified direction of operation.	
Roller lever						
	Long	LS-XL 266123	LSM-XL 266156	10 off		
	Short	LS-XLS 290177				
	Large	LS-XLB 290178		1 off		
Angled roller lever						
		LS-XLA 266124	LSM-XLA 266157	10 off		
Rotary lever						
		LS-XRL 266126	LSM-XRL 266159	5 off		
Adjustable roller levers						
	D = 18 mm	LS-XRLA 266127	LSM-XRLA 266160	4 off		
	D = 30 mm	LS-XRLA30 266128				
	D = 40 mm	LS-XRLA40 266129				
	D = 40 mm (rubber)	LS-XRLA40R 266130				
Actuating rods						
	Plastic rod	LS-XRR 266131	LSM-XRR 266161	4 off		
	Metal rod	LS-XRRM 266132	LSM-XRRM 266162	4 off		
Spring-rod						
	Not to be used as a safety position switch Use only in conjunction with snap-action contact.	LS-XS 266133	LSM-XS 266163	5 off		
Actuating rod						
		LS-XOR 290190		1 off		
Fixing adapter Actuation through RMQ-Titan® front elements						
		M22-LS 266137		10 off		

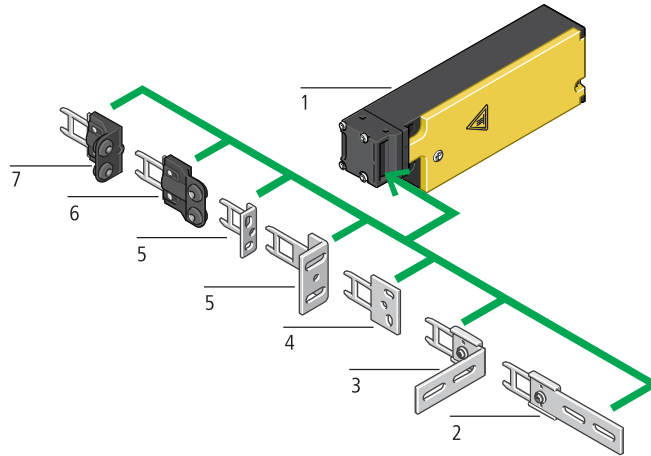
	For use with	Description	Part no. Article no.	Price see price list	Std. pack	Notes
M20 screw terminal M20 in 1/2"						
		for use with american pipe thread, metal	V1/2"/M20-NA 225269		10 off	The screw connection must be earthed, not total insulation
		for use with american pipe thread, moulded material	V1/2"/M20 225270		10 off	
M20 diaphragm bolt, IP65						
With integral push-through membrane External diameter of cable up to 13 mm IP65 with cable inserted						
			EMS20 225271		25 off	
M20 screw closure (self-sealing grommet) For tightening / loosening by using a standard wrench for sealing grommet plugs						
			LS-X20 266134		25 off	
Plug connector, M12 × 1, IP65						
Moulded $U_i = 250\text{ V}$, $I_{th} = 4\text{ A}$ Fuse: 6 A gG/gL						
4-pole $U_e = 250\text{ V}$						
	LS	„A“ coded  Standard in IEC/EN 60947-5-2	M12A 266135		10 off	
	LS	„B“ coded 	M12B 266136		10 off	
5-pole $U_e = 125\text{ V}$						
	LSM	„A“ coded  Standard in IEC/EN 60947-5-2	M12A5 272202		10 off	
	LSM	„B“ coded 	M12B5 272203		10 off	
Cage Clamp twin N/C contact						
			LS-XTW 290179		1 off	

Position switch

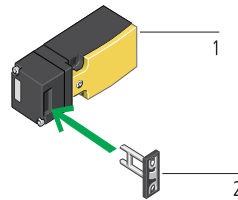


LS-...ZBZ

Safety switches

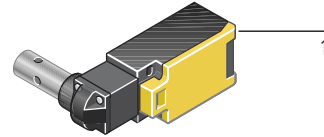
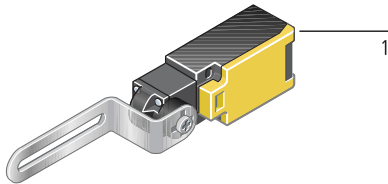


LS-...ZB

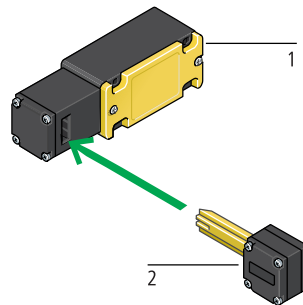


LSR-...TKG

LSR-...TS



LS4-...ZB



LS-...ZBZ

Basic device	1
Spring or magnet-powered interlock	
For increased personnel and process protection	
Tamper-proof	
Multiple coded actuators	
Contacts: 1 NO/1 NC or 2 NC	
→ page 3/12	

Flat flexible actuator	2
For doors that do not close precisely	
→ page 3/13	

Angled flexible actuator	3
For doors that do not close precisely	
→ page 3/13	

Flat actuator	4
For sliding doors	
→ page 3/13	

Angled actuator	5
For swing doors	
→ page 3/13	

Flat compensating actuator	6
For increased tolerance compensation in the direction of door closure	
→ page 3/13	

Angled compensating actuator	7
For increased tolerance compensation in the direction of door closure	
→ page 3/13	

LS-...ZB

Complete device	1
For personnel protection	
Contacts: 1 NC, 1 NO/1 NO or 2 NC	
5 directions of operation possible	
→ page 3/14	

Actuator	2
Multiple coding protection against tampering	

LSR-...TKG, LSR-...TS

Complete device	1
For personnel protection	
Contacts: 1 NO/1 NC or 2 NC	
For swing doors with fixed connection to the door/hinge pin	
LSR-...TKG → page 3/14	
LSR-...TS → page 3/14	

LS4-.../ZB

Complete device	1
Narrow enclosure version	
For personnel protection	
Contacts: 1NO, 1NO/1NC	
→ page 3/14	

Actuator	2
Multiple coding	
For horizontal or vertical operation	

Product features

- Interlocking device to EN 1088
- For use in safety circuits
- ⊕ Safety function by positive opening according to IEC/EN 60947-5-1
- Degree of protection IP65
- Operating head can be rotated 4 × 90°
- With M20 × 1.5 thread



Notes

Do not use as a mechanical stop/shipping brace.



Attention!

Any change to an original Moeller safety position switch is not permitted and automatically leads to the loss of all approvals



Auxiliary contacts: ⊕ = safety function, by positive opening to IEC/EN 60947-5-1

Contact sequence

Rated control voltage for magnetic drive

Part no. Article no.

Price see price list

Std. pack

N/O = Normally open

N/C = Normally closed

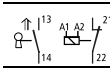
U_s

V

Basic units with spring-powered interlock (closed-circuit principle), IP65¹⁾

- With interlock monitoring and auxiliary release mechanism
- Monitoring of door position: continuous

1 N/O 1 N/C ⊕

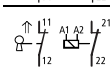


24 V DC

LS-S11-24DFT-ZBZ/X
106829

1 off

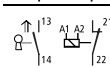
2 N/C ⊕



24 V DC

LS-S02-24DFT-ZBZ/X
106823

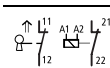
1 N/O 1 N/C ⊕



120 V 50/60 Hz

LS-S11-120AFT-ZBZ/X
106825

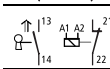
2 N/C ⊕



120 V 50/60 Hz

LS-S02-120AFT-ZBZ/X
106778

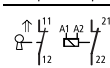
1 N/O 1 N/C ⊕



230 V 50/60 Hz

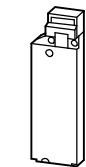
LS-S11-230AFT-ZBZ/X
106827

2 N/C ⊕



230 V 50/60 Hz

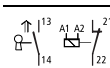
LS-S02-230AFT-ZBZ/X
106821



Basic units with magnet-powered interlock (open-circuit principle), IP65²⁾

- With interlock monitoring
- Monitoring of door position: continuous

1 N/O 1 N/C ⊕

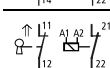


24 V DC

LS-S11-24DMT-ZBZ/X
106830

1 off

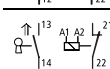
2 N/C ⊕



24 V DC

LS-S02-24DMT-ZBZ/X
106824

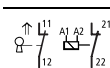
1 N/O 1 N/C ⊕



120 V 50/60 Hz

LS-S11-120AMT-ZBZ/X
106826

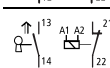
2 N/C ⊕



120 V 50/60 Hz

LS-S02-120AMT-ZBZ/X
106820

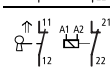
1 N/O 1 N/C ⊕



230 V 50/60 Hz

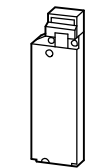
LS-S11-230AMT-ZBZ/X
106828

2 N/C ⊕



230 V 50/60 Hz

LS-S02-230AMT-ZBZ/X
106822



Notes

- ¹⁾ Time control of the release operation possible using ESR4-NT30-30
- ²⁾ Time control of the release operation possible using ESR4-NV30-30

Electric circuitry with DIL contactors and ESR4 safety relays Safety manual TB0-009, order no. 082309

With the actuator inserted, the NO contact is open and the NC contact is closed.

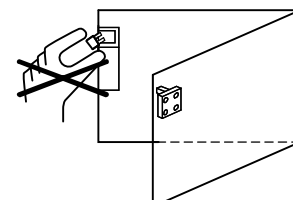
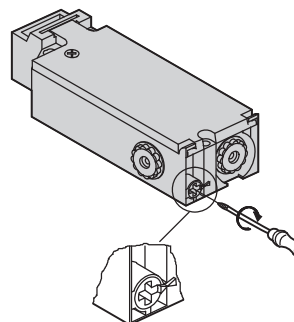
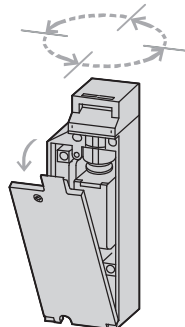
The operating head can be rotated manually in 90° steps to suit the specified level of actuation.

In the event of a loss of voltage, (e.g. during commissioning), the spring-powered LS-...-...FT-ZBZ can be released with a screwdriver. The auxiliary release mechanism must be sealed!

Care should be taken during mounting and operation that no foreign bodies enter the actuator's entry aperture.



Switch must never be used as a mechanical stop!



For degree of protection IP65, use V-M20 cable glands with connecting thread of max. 9 mm length



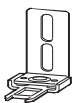
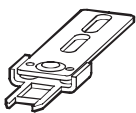


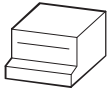
Accessories

V-M20 cable gland

Page

→ 13/35



	Part no. Article no.	Price see price list	Std. pack
Actuators			
Stainless steel For combination with LS-...ZBZ/X basic devices			
Flat actuator For sliding doors 			
	LS-XG-ZBZ 106833		1 off
Angled actuator For swing doors from 250 mm width 			
short	LS-XW-ZBZ 106839		1 off
long	LS-XWA-ZBZ 106838		1 off
Angled, flexible actuator For doors that do not close precisely 			
	LS-XF-ZBZ 106832		1 off
even, flexible coasting actuator For doors that do not close precisely 			
	LS-XFG-ZBZ 106831		1 off
Flat, compensating actuator with increased tolerance in closing direction for inaccurately closing doors 			
	LS-XNG-ZBZ 106834		1 off
Angled, compensating actuator with increased tolerance in closing direction for inaccurately closing doors 			
	LS-XNW-ZBZ 106835		1 off
Accessories			
-			
Dust protection cap Prevents ingress of foreign matter into the device head 			
	LS-XSK-ZBZ 106837		1 off

Safety switches



Auxiliary contacts: ⊕ = safety function, by positive opening to IEC/EN 60947-5-1		Contact sequence	Contact sequence ■ = Contact closed □ = Contact open Zw = Positive opening sequence	Approval	Connection type	Part no. Article no.	Price see price list	Std. pack		
N/O = Normally open N/C = Normally closed										
Safety door flap switch LSR-.../TKG, IP65										
	2 N/C ⊕				Screw terminal	LSR-S02-1-I/TKG 106848		1 off		
	1 N/O	1 N/C ⊕							Screw terminal	LSR-S11-1-I/TKG 106847
Hinge-operated safety switch LSR-.../TS, IP65										
	2 N/C ⊕				Screw terminal	LSR-S02-1-I/TS 106852		1 off		
	1 N/O	1 N/C ⊕							Screw terminal	LSR-S11-1-I/TS 106851
Safety position switches LS...-ZB, IP65										
With the actuator inserted, the NO contact is open and the NC contact is closed.										
	2 N/C ⊕		—		Cage Clamp	LS-02-ZB 106817		2 off		
	2 N/C ⊕		—		Screw terminal	LS-S02-ZB 106874			1 off	
	1 N/O	1 N/C ⊕			—	Cage Clamp			LS-11-ZB 106819	2 off
	1 N/O	1 N/C ⊕			—	Screw terminal			LS-S11-ZB 106876	1 off
	1 N/O	1 N/C ⊕	—		Snap-action contact	Cage Clamp			LS-11S-ZB 106870	2 off
	1 N/O	1 N/C ⊕	—		Snap-action contact	Screw terminal			LS-S11S-ZB 106877	1 off
safety/ position switch LS4.../ZB, IP65										
With the actuator inserted, the NO contact is open and the NC contact is closed.										
	1 N/C ⊕		—		Screw terminal	LS4/S01-1-I/ZB 106855		1 off		
	1 N/O	1 N/C ⊕			—	Screw terminal			LS4/S11-1-I/ZB 106857	1 off

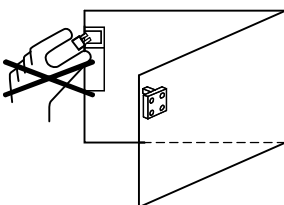
Notes Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany.

Electric circuitry with DIL contactors and ESR4 safety relays a Safety manual TB0-009, order no. 082309

Actuator can be repositioned for horizontal or vertical installation. The operating heads can be rotated manually in 90° steps to suit the specified direction of operation.

Electric circuitry with DIL contactors and ESR4 safety relays Safety manual TB0-009, order no. 082309

Note: Care should be taken during mounting and operation that no foreign bodies enter the actuator's entry aperture.

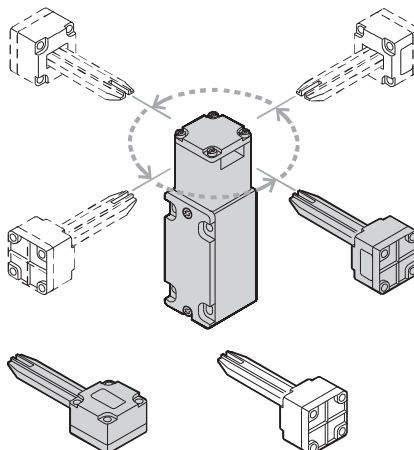


With the actuator inserted, the NO contact is open and the NC contact is closed.

For degree of protection IP65, use V-M20 cable glands with max 9 mm long thread.

Accessories Page
V-M20 cable gland → 13/35

Contact sequences → Electronic Catalogue



With the actuator inserted, the NO contact is open and the NC contact is closed.

