LD-LP-LL-LC Rope Safety Switches

with reset for emergency stop

- Metal or polymer housing, from one or three conduit entries
- Protection degree IP67
- In conformity with EN ISO 13850
- 7 contact blocks available
- Transverse head or longitudinal head versions
- M12 assembled connector versions



Options & Ordering Codes

LD Series



 $\textbf{Note:} \ \text{The feasibility of a code number does not mean the effective availability of a product}$

Mousing metal housing, one conduit entry LD metal housing, one conduit entry LP Contact Blocks 1NO+1NC, slow action C20 3NC, slow action C33 2NC, slow action C34 Actuating Head longitudinal head Beat (LD & LL housing ony) RRR LC C33 RRS 1NO+1NC, slow action C34 LC C33 RRS 1NO+1NC, slow action C34 Actuating Head (LD & LL housing ony) RRR LC C33 RRS 1NO+1NC, slow action C34 Actuating Head (as above) Actuating Force (as above)	ousing		- 1		- J7	G		X50	110
metal housing, one conduit entry LD metal housing, three conduit entry LP Contact Blocks 1NO+1NC, slow action C3 3NC, slow action C21 2NO+1NC, slow action C21 2NO+1NC, slow action C21 3NC, slow action C21 3NC, slow action C33 2NC, slow action C33 2NC, slow action C33 2NC, slow action C34 Actuating Head longitudinal head left transverse head (LD & LL housing only) RRL right transverse head (LD & LL housing only) RRR LC C33 RRS LC C34 RRS LC C33 RRS LC C34 RRS LC C34 RRS LC C35 RRS LC C35 RRS LC C35 RRS LC C36 RRS RRS LC C37 RRS RRS RRS LC C37 RRS RRS RRS RRS LC C37 RRS RRS RRS RRS RRS RRS RRS RRS	ousing	I .							Temperature
netal housing, three conduit entries LL olymer housing, one conduit entry LP Contact Blocks 1NO+1NC, slow action C9 1NO+2NC, slow action C20 3NC, slow action C31 2NO+1NC, slow action C32 1NO+1NC, slow action C34 Actuating Head Inoghtudinal head left transverse head (LD & LL housing only) RRR right transverse head (LD & LL housing only) RRR LC C33 RRS LC C33 RRS - J7 G 16 X22 ousing Preinstalled Cable Glands or Connector **Treaded Conduit Entry* **Preinstalled Cable Glands or Connector **Treaded Conduit Entry* PG 13.5 (standard) 2.0 M20 x 1.5 Contact Type sliver contacts (standard) g silver contacts gold plated 1 ### ### ### ### ### ### ### ### ###	and the second second of the second	1.0							standard
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Contact Blocks 1NO+1NC, slow action C18 2NC, slow action C20 3NC, slow action C21 2NO+1NC, slow action C22 1NO+1NC, slow action C22 1NO+1NC, slow action C33 2NC, slow action C34 Actuating Head Individual	olymer nousing, one conduit entry	LP							
1NO+1NC, slow action C9 1NO+2NC, slow action C20 3NC, slow action C21 2NO+1NC, slow action C22 1NO+1NC, slow action C22 1NO+1NC, slow action C33 2NC, slow action C33 2NC, slow action C34 Actuating Head Inogitudinal head Inogitu	Contact Blocks								, ,
1N0+2NC, slow action C21 2N0+1NC, slow action C22 1N0+1NC, slow action C33 2NC, slow action C33 2NC, slow action C33 2NC, slow action C34 Actuating Head longitudinal head RRS left transverse head (LD & LL housing only) RRL right transverse head (LD & LL housing only) RRR Intital 2ONfinal 4ON (only for head RRS) LC C33 RRS — J7 G 16 X22 Preinstalled Cable Glands or Connected Standard) Preinstalled Cable Glands or Connected Standard) X22 Preinstalled Cable Glands or Connected Standard) No -1NC, slow action C33 2NC, slow action C34 Actuating Head (as above) Threaded Conduit Entry Preinstalled Cable Glands or Connected Standard) X22 Preinstalled Cable Glands or Connected Standard) X26 with assembled cable gland suitable for Ø 5 to Ø 10mm cable ranges X26 with assembled cable gland suitable for Ø 3 to Ø 7mm cable ranges Threaded Conduit Entry PG 11 (standard) Threaded Conduit Entry PG 11 (standard)	1NO+1NC, slow action		C18					X21	
1NO+2NC, slow action C20	2NC, slow action		C9					X50	5 pole M12 assembled metal connector
3NC, slow action C21 2NO +1NC, slow action C33 2NC, slow action C34 Actuating Head Iongitudinal head RRS left transverse head (LD & LL housing only) RRR injth transverse head (LD & LL housing only) RRR LC C33 RRS - J7 G 16 X22 Ousing LC C33 RRS - J7 G 16 X22 Preinstalled Cable Glands or Connect standard INO +1NC, slow action C34 Actuating Head (as above) Actuating Head (as above) Threaded Conduit Entry PG 13.5 (standard) Contact Type Silver contacts (standard) G silver contacts (standard) G silver contacts gold plated 1 Actuating Force Standard J7 initial 20Nfinal 40N (only for heads RRL & RRR) Preinstalled Cable Glands or Connected (islandard) To cable gland or connector (standard) X22 Ø 5 to Ø 10mm cable ranges X26 with assembled cable gland suitable for Ø 3 to Ø 7mm cable ranges Threaded Conduit Entry PG 11 (standard) Threaded Conduit Entry PG 11 (standard) Threaded Conduit Entry PG 11 (standard)	1NO+2NC, slow action		C20						
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Threaded Conduit Entry Actuating Head (as above) ACTUAL Blocks 1NO+1NC, slow action C33 2NC, slow action C34 Threaded Conduit Entry PG 11 (standard) 16 M16 x 1.5	etal housing, one conduit entry	LC							
2NC, slow action C34 Actuating Head (as above) Actuating Head (as above) PG 11 (standard) 16 M16 x 1.5	Contact Blocks							X22	with assembled cable gland suitable for Ø 5 to Ø 10mm cable ranges
Actuating Head (as above) Threaded Conduit Entry PG 11 (standard) 16 M16 x 1.5	1NO+1NC, slow action		C33					X26	
Actuating Head (as above) PG 11 (standard) 16 M16 x 1.5	2NC, slow action		C34						Ø 3 to Ø 7 mm cable ranges
16 M16 x 1.5	Actuating Head (as ab	ove)					\perp		<u> </u>
Actuating Force (as above)							- 10		
							16	M16 x 1.5	<u> </u>
	Actuati	ng Force (as a	bove)		- 1	1			

TECHNICAL DATASHEET

Specifications

For safety applications up to: SIL 3 acc. to EN 62061 PL e acc. to EN ISO 13849-1

Safety parameters:

2,000,000 for NC contacts Service life: 20 years -25°C ... +80°C Ambient temperature: Max. actuation frequency: 1 cycle / 6 s Mechanical endurance: 1 million operating cycles¹

Max. actuation speed: 0.5 m/s

Min. actuation speed: 1 mm/s

(1) One operation cycle means two movements, one to close and one to open contacts, as defined in EN 60947-5-1.

In conformity with standards

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, IEC 60204-1,

EN 60204-1, EN ISO 14119,

EN ISO 12100, IEC 60529, EN 60529, EN ISO 13850, EN 418,

UL 508, CSA 22.2 No.14.

Housing

LP series housing made of glass fiber reinforced technopolymer, self-extinguishing, shock-proof and with double insulation:

LD, LL and LC series: metal housing, baked powder coating.

PG13.5 (standard) LD, LP, LC series: one threaded conduit entry: LL series: three threaded conduit entries: PG13.5 (standard) Protection degree: IP67 acc. to EN 60529 with

cable gland of equal or higher

protection degree

In conformity with requirements requested by

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and EMC Directive 2004/122/EC.

Positive contact opening in conformity with standards

IEC 60947-5-1. EN 60947-5-1.

Max cable cross section (flexible copper wire)

Contact blocks C20, C21, C22, C33, C34: min. 1 x 0.34 mm² (1 x AWG 22) max. 2 x 1.5 mm² (2 x AWG 16) Contact blocks C18, C9: min. 1 x 0.5 mm² (1 x AWG 20) max. 2 x 2.5 mm² (2 x AWG 14)

Electrical data

Utilization category

Thermal current (Ith): Rated insulation voltage (Ui):		10 A 500 Vac 600 Vdc	Alternating current: AC15 (50/60 Hz)			
ctor	Rated impulse withstand voltage (U _{imp}):	400 Vac 500 Vdc (contact blocks C20, C21, C22, C33, C34) 6 kV	Ue (V) le (A)	250 6	400 4	500 1
without	Conditional short circuit current:	4 kV (contact blocks C20, C21, C22, C33, C34) 1000 A acc. to EN 60947-5-1		rent: DC13		
- 5	Protection against short circuits:	type aM fuse 10 A 500 V	Ue (V)	24	125	250
	Pollution degree:	3	le (A)	6	1.1	0.4
<u></u>			Alternatin	g current: A	.C15 (50/60	0 Hz)
connector 5 poles	Thermal current (Ith):	4 A	Ue (V)	24	120	250
connect 5 poles	Rated insulation voltage (Ui):	250 Vac 300 Vdc	le (A)	4	4	4
12 c	Protection against short circuits:	type gG fuse 4 A 500 V	Direct cur	rent: DC13		
with M12 4 and 5	Pollution degree:	3	Ue (V)	24	125	250
X			le (A)	4	1.1	0.4
5			Alternatin	g current: A	.C15 (50/60	0 Hz)
ect	Thermal current (Ith):	2 A	Ue (V)	24	,	*
with M12 connector 8 poles	Rated insulation voltage (Ui):	30 Vac 36 Vdc	le (A)	2		
112 conr 8 poles	Protection against short circuits:	type gG fuse 2 A 500 V	Direct cur	rent: DC13		
≥ ∞	Pollution degree:	3	Ue (V)	24		
₹			le (A)	2		

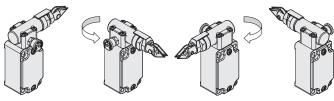
IMO

Description



These rope operated safety switches can be installed on machines or conveyor belts and are used to activate the emergency stop of the machine on intervention with the rope, at any point. They allow for cost savings on machines of medium-large size, where normally numerous emergency stop push buttons can be replaced by one single rope switch. Provided with a self-control function, when fitted properly they constantly check for correct operation, signalling with the opening of the contacts with a manual intervention (emergency stop activation) of an eventual pull, loosening or breaking of the rope. After activation the contacts remain open, until they are reset.

Orientable heads



Removing the four fastening screws makes it is possible to rotate the head in 90° steps.

Laser engraving



The markings of all devices are LASER printed on to the unit. As the markings are directly printed they are less likely to be rubbed off and do not fall off as found with some attached labels, making them suitable for extreme environments.

Protection degree IP67

IP67

These devices are designed to be used in the toughest environmental conditions and they pass the IP67 immersion test acc. to IEC 60529.

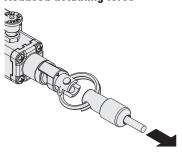
Indicator for the state of the reset





If the rope tensioning indicator is in the correct area, within the green band, the unit can be reset by pulling the blue button to close the safety contacts. The state of the switch can be quickly checked by observing the tension indicator's position with respect to the green band, and the blue button in the Released Reset/Armed Reset state.

Reduced actuating force



These switches can be supplied with a spring requiring less tension for movement hence reducing the effort needed to actuate the switch, while, maintaining the correct actuation of the electrical contacts.

Adjustment point indicator of the rope

All switches are provided with a green band, this green band area is for setting the correct tensioning of the rope. The installer has to tension the rope until the black indicator is set to the middle of this green band.

When set, a pull or loosing of the rope allows the black indictor to travel to the outside of the correct tension area (green band), at this point the safety contacts are opened and the reset device is triggered.

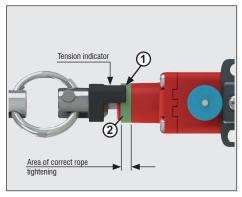
Extended temperature range

-40°C

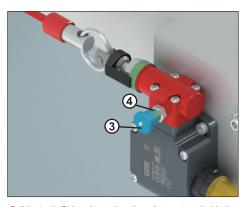
This switch range is also available in a special version with an ambient operating temperature range of -40°C to +80°C for low temperature

environments such as cold stores and sterilisers.

Adjustment of the operating point



Tighten the rope connected to the switch, until the end of the indicator (1) reaches about the middle of the green ring (2).

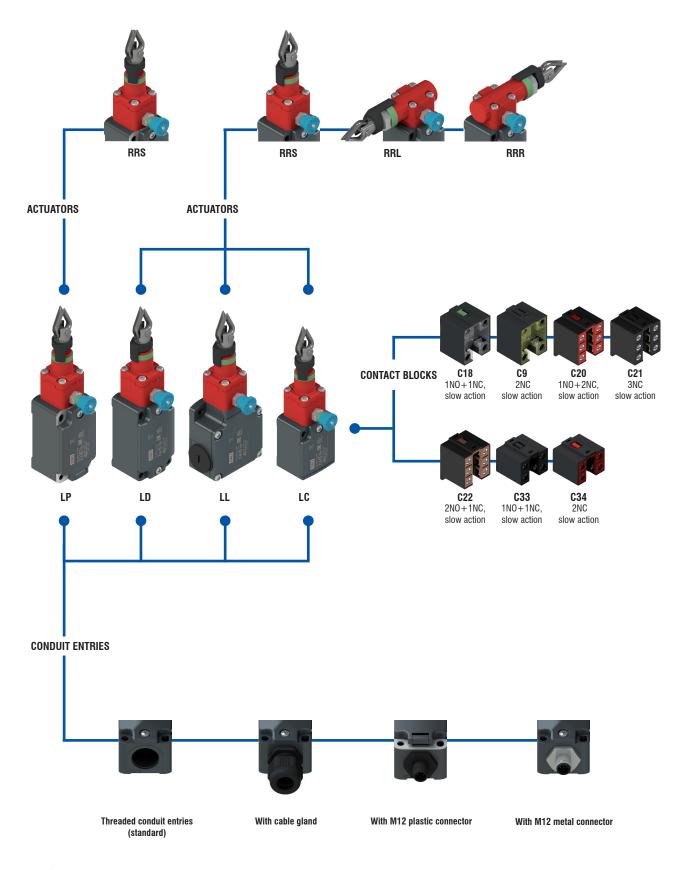


Pull the knob (3) in order to close the safety contacts inside the switch. A green band (4) will be exposed to indicate the Armed reset condition.

p3 www.imopc.com

Selection diagram





Product option



group 2

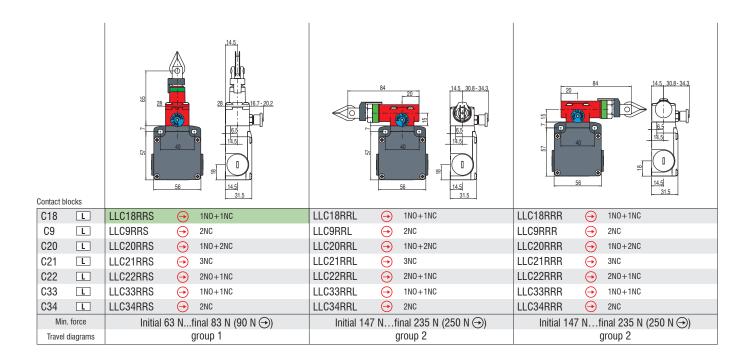
Dimensional drawings All measures in the drawings are in mm Contact type: L = slow action 30.8 - 34.3 30.4 30.4 30 30.4 30 38.6 Contact blocks C18 L LPC18RRS \bigcirc 1NO+1NC LDC18RRS \bigoplus 1NO+1NC LDC18RRL \bigcirc 1NO+1NC LDC18RRR \ominus 1NO+1NC L LPC9RRS \bigcirc 2NC LDC9RRS (\rightarrow) 2NC LDC9RRL \bigcirc 2NC LDC9RRR \bigcirc 2NC C20 L LPC20RRS \bigcirc 1NO+2NC LDC20RRS (\rightarrow) 1NO+2NC LDC20RRL (\rightarrow) 1NO+2NC LDC20RRR (\rightarrow) 1NO+2NC C21 L LPC21RRS \bigcirc 3NC LDC21RRS (\rightarrow) 3NC LDC21RRL (\rightarrow) 3NC LDC21RRR (\rightarrow) 3NC C22 LPC22RRS \bigcirc 2NO+1NC LDC22RRS \bigcirc 2NO+1NC LDC22RRL \bigcirc 2NO+1NC LDC22RRR (\rightarrow) 2NO+1NC C33 LPC33RRS LDC33RRS (\rightarrow) LDC33RRL (\rightarrow) LDC33RRR (\rightarrow) L (\rightarrow) 1NO+1NC 1NO+1NC 1NO+1NC 1N0+1NC LPC34RRS \ominus 2NC LDC34RRS \bigoplus LDC34RRL \odot LDC34RRR \bigcirc C34 L 2NC 2NC 2NC Initial 63 N...final 83 N (90 N 🔾) Initial 63 N...final 83 N (90 N 🔾) Initial 147 N...final 235 N (250 N (->)) Initial 147 N...final 235 N (250 N →) Min. force

group 2

group 1

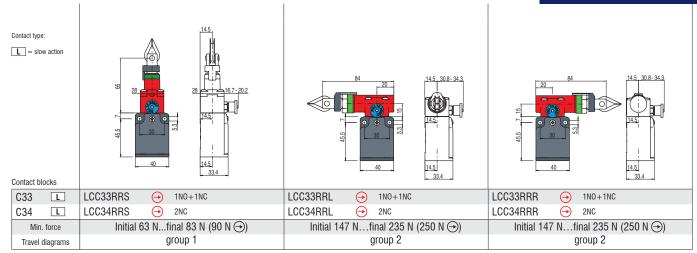
group 1

Travel diagrams



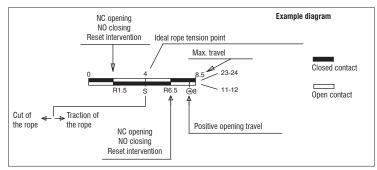
p5 www.imopc.com





How to read travel diagrams

All measures in the diagrams are in mm



Travel diagrams table

Contact blocks	S	Group 1	Group 2
C18 1NO+1NC	11 23	0 4 8.5 R1.5 S R6.5 →8	0 8 ÷14 16
C9 2NC	11 21 7 - 7 12 22	0 4 8.5 R1.5 S R6.5 ⊕8	0 8 ^{⊕14} R4.5 S R12
C20 1NO+2NC	11 21 33 7 - 7 - \ 12 22 34	0 4 ⊕8 R1.5 S R6.5	0 8 ÷ 14 16 R4.5 S R12
C21 3NC	11 21 31 7 - 7 - 7 12 22 32	0 4 ^{⊕8} 8.5 R1.5 S R6.5	0 8 \$\infty\$14 16 R4.5 S R12
C22 2NO+1NC	11 23 33 7 - 1 12 24 34	0 4 \odot 8.5 R1.5 S R6.5	0 8 [©] 14 16 R4.5 S R12
C33 1NC+1NO	13 21 	0 4 →8 8.5 R1.5 S R6.5	0 8 ⁽¹⁴⁾ 16
C34 2NC	11 21 7 - 7 12 22	0 4 8.5 R1.5 S R6.5 8	0 8 914 16 R4.5 S R12

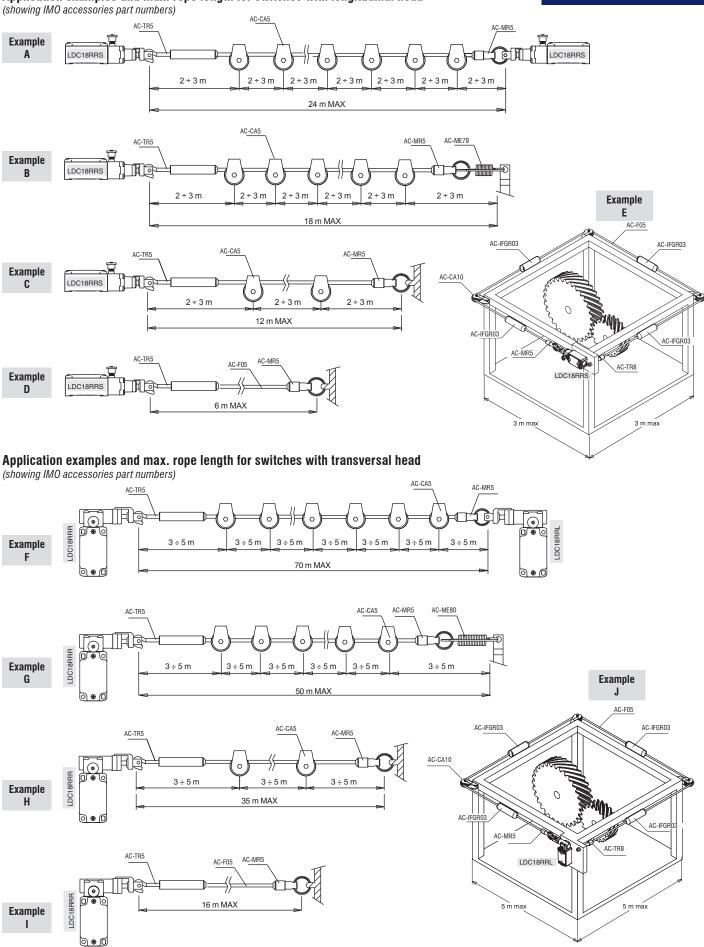
IMPORTANT:

In safety applications, actuate the switch at least up to the positive opening travel shown in the travel diagrams with symbol \bigoplus . Operate the switch at least with the positive opening force, indicated between brackets below each article, aside the minimum force value.

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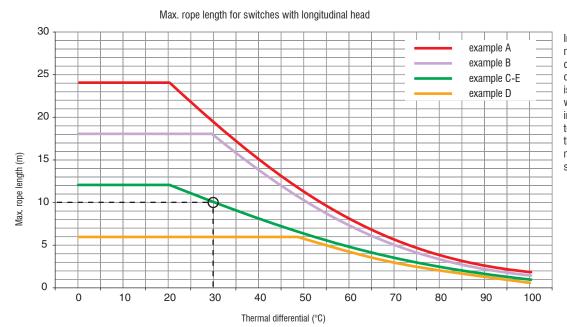


Application examples and max. rope length for switches with longitudinal head

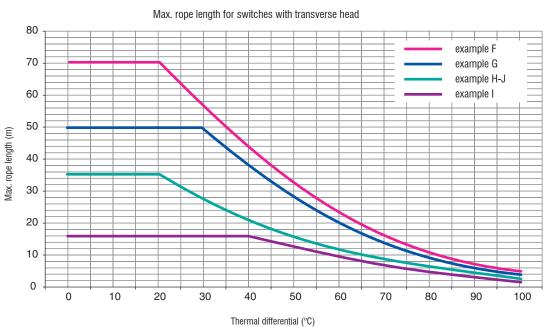




Max. rope length



In the diagram, the suggested max. rope lengths with regard to changes of temperature (thermal differential) to which the switch is expected to be exposed in the working area are indicated. For instance, for an installation acc. to example C which expects a thermal differential of 30°C, a max. rope length of 10 meters is suggested.



Important: The above data are guaranteed only using original rope and accessories.

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