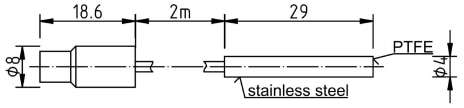
CAPACITIVE SENSORS - BONDING

Sensing Distance Sn 0...1 mm adjustable

Locon Sensor Systems, Inc.

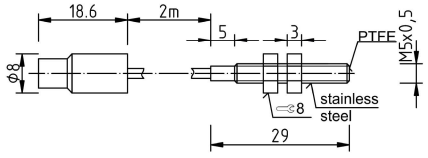
Dimensions are in mm.

4 Ø
Part Number:
LCA - 4 - 1 - F
flush mount



Dimensions are in mm.

M5
Part Number:
LCA - M5 - 1 - F
flush mount



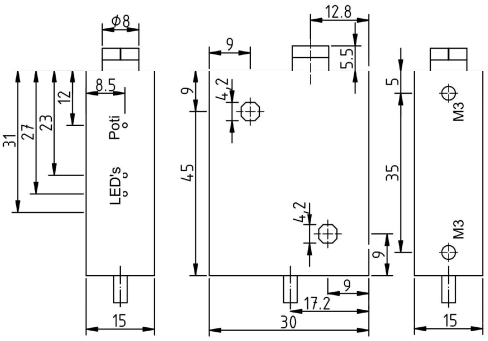
These sensors share the following specifications:

Hysteresis H max. (% of Sr)	20%	Rated insulation voltage Ui:	75 VDC
Switching frequency:	100 Hz	Housing material:	Stainless steel
Repeat accuracy (% of Sr):	2.0 %	Sensor face:	PTFE
Ambient temperature:	-30. . . +80°C	Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR
Temperature drift max. (% of Sr):	20 %	Connection:	Special connector
Protection class IEC 60529:	IP 67	Supply voltage with amplifier	4 ... 8 VDC

Amplifiers required for mini-series sensors

Dimensions are in mm.

DC Amplifier
LSA - 45/30/15-P-NO
LSA - 45/30/15-P-NC
LSA - 45/30/15-N-NO
LSA - 45/30/15-N-NC



Technical Data:		**Wiring and Mounting Info**	
Switching frequency:	100 Hz	Residual voltage U_A L-signal:	approx. 1.4 VDC
Ambient temperature:	-30 ... +70°C	Residual voltage U_A H-signal:	approx. U_B VDC
Protection class IEC60529 (housing):	IP65	Short circuit protection:	Yes
Housing material:	Duroplast type 31	Overload protection:	Yes
Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR	EMF protection:	Yes
Supply voltage U_B:	10 .. 35 VDC	Reverse polarity protection:	Yes
Permissible ripple:	≤ 10% U_B	Supply voltage:	Green LED
No-load current (24 VDC):	approx. 10 mA	Output function indicator:	Yellow LED
Output current I_A maximum:	300 mA	Connection for sensor:	Special connector
Max. switching power:	7.2 W	Sensing distance:	Adjustable
Supply voltage for sensor:	4 ... 8 VDC	Conformity:	CE

Design and technical details subject to change. Sensor cap color and cable color subject to change.

Locon Sensor Systems, Inc.

Toll-Free: 800-356-2661 · Phone: 419-740-8445 · Fax: 216-359-0077 · E-mail: sales@locon.net · Website: www.locon.net

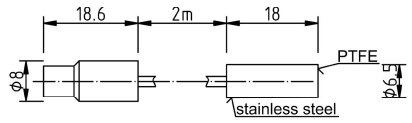
CAPACITIVE SENSORS - BONDING

Sensing Distance Sn 0...1.5 or 3 mm adjustable

Locon Sensor Systems, Inc.

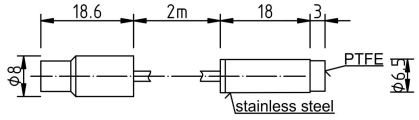
Dimensions are in mm.

6.5 Ø
Part Number:
LCA - 6.5 - 1.5 - F
flush mount



Dimensions are in mm.

6.5 Ø
Part Number:
LCA - 6.5 - 3 - NF
non-flush mount



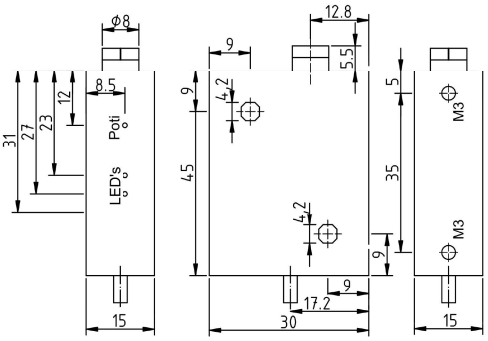
These sensors share the following specifications:

Hysteresis H max. (% of Sr)	10%	Rated insulation voltage Ui:	75 VDC
Switching frequency:	100 Hz	Housing material:	Stainless steel
Repeat accuracy (% of Sr):	2.0 %	Sensor face:	PTFE
Ambient temperature:	-30. . . +80°C	Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR
Temperature drift max. (% of Sr):	20 %	Connection:	Special connector
Protection class IEC 60529:	IP 67	Supply voltage with amplifier	4 ... 8 VDC

Amplifiers required for mini-series sensors

Dimensions are in mm.

DC Amplifier
LSA - 45/30/15-P-NO
LSA - 45/30/15-P-NC
LSA - 45/30/15-N-NO
LSA - 45/30/15-N-NC



Technical Data:		Wiring and Mounting Info	
Switching frequency:	100 Hz	Residual voltage U_A L-signal:	approx. 1.4 VDC
Ambient temperature:	-30 ... +70°C	Residual voltage U_A H-signal:	approx. U_B VDC
Protection class IEC60529 (housing):	IP65	Short circuit protection:	Yes
Housing material:	Duroplast type 31	Overload protection:	Yes
Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR	EMF protection:	Yes
Supply voltage U_B:	10 .. 35 VDC	Reverse polarity protection:	Yes
Permissible ripple:	≤ 10% U_B	Supply voltage:	Green LED
No-load current (24 VDC):	approx. 10 mA	Output function indicator:	Yellow LED
Output current I_A maximum:	300 mA	Connection for sensor:	Special connector
Max. switching power:	7.2 W	Sensing distance:	Adjustable
Supply voltage for sensor:	4 ... 8 VDC	Conformity:	CE

Design and technical details subject to change. Sensor cap color and cable color subject to change.

Locon Sensor Systems, Inc.

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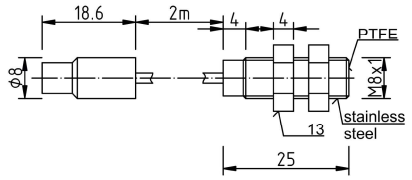
CAPACITIVE SENSORS - BONDING

Sensing Distance Sn 0...1.5 or 3 mm adjustable

Locon Sensor Systems, Inc.

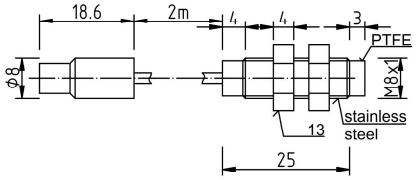
Dimensions are in mm.

M8
Part Number:
LCA - M8 - 1.5 - F
flush mount



Dimensions are in mm.

M8
Part Number:
LCA - M8 - 3 - NF
non-flush mount



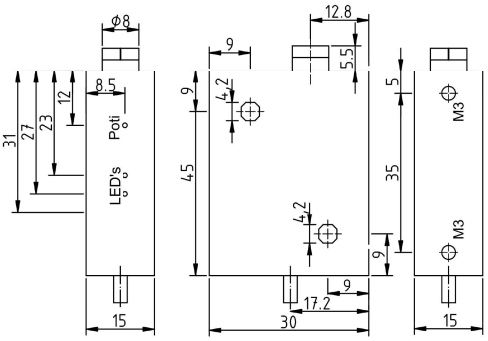
These sensors share the following specifications:

Hysteresis H max. (% of Sr)	10%	Rated insulation voltage Ui:	75 VDC
Switching frequency:	100 Hz	Housing material:	Stainless steel
Repeat accuracy (% of Sr):	2.0 %	Sensor face:	PTFE
Ambient temperature:	-30. . . +80°C	Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR
Temperature drift max. (% of Sr):	20 %	Connection:	Special connector
Protection class IEC 60529:	IP 67	Supply voltage with amplifier	4 ... 8 VDC

Amplifiers required for mini-series sensors

Dimensions are in mm.

DC Amplifier
LSA - 45/30/15-P-NO
LSA - 45/30/15-P-NC
LSA - 45/30/15-N-NO
LSA - 45/30/15-N-NC



Technical Data:		Wiring and Mounting Info	
Switching frequency:	100 Hz	Residual voltage U_A L-signal:	approx. 1.4 VDC
Ambient temperature:	-30 ... +70°C	Residual voltage U_A H-signal:	approx. U_B VDC
Protection class IEC60529 (housing):	IP65	Short circuit protection:	Yes
Housing material:	Duroplast type 31	Overload protection:	Yes
Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR	EMF protection:	Yes
Supply voltage U_B:	10 .. 35 VDC	Reverse polarity protection:	Yes
Permissible ripple:	≤ 10% U_B	Supply voltage:	Green LED
No-load current (24 VDC):	approx. 10 mA	Output function indicator:	Yellow LED
Output current I_A maximum:	300 mA	Connection for sensor:	Special connector
Max. switching power:	7.2 W	Sensing distance:	Adjustable
Supply voltage for sensor:	4 ... 8 VDC	Conformity:	CE

Design and technical details subject to change. Sensor cap color and cable color subject to change.

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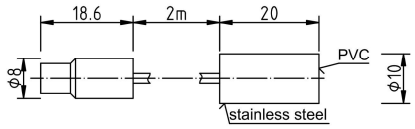
CAPACITIVE SENSORS - BONDING

Sensing Distance Sn 0...4 or 8 mm adjustable

Locon Sensor Systems, Inc.

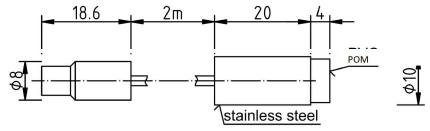
Dimensions are in mm.

10 Ø
Part Number:
LCA - 10 - 4 - F
flush mount



Dimensions are in mm.

10 Ø
Part Number:
LCA - 10 - 8 - NF
non-flush mount



The LCA-10-8-NF is halogen-free.

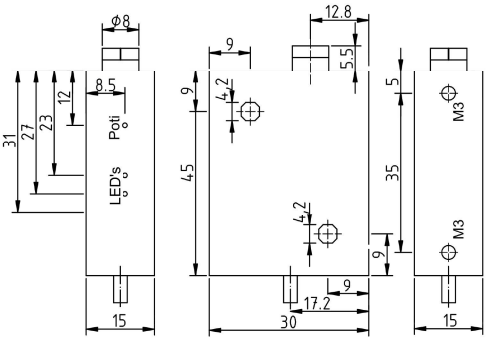
These sensors share the following specifications:

Hysteresis H max. (% of Sr)	10%	Rated insulation voltage Ui:	75 VDC
Switching frequency:	100 Hz	Housing material:	Stainless steel
Repeat accuracy (% of Sr):	2.0 %	Sensor face:	LCA-10-4-F=PVC / LCA-10-8-NF=POM
Ambient temperature:	-30. . . +70°C	Cable 2m(+/- 5%) 3 x 0.14mm2 :	LCA-10-4-F= PVC/LCA-10-8-NF=PUR
Temperature drift max. (% of Sr):	20 %	Connection:	Special connector
Protection class IEC 60529:	IP 67	Supply voltage with amplifier	4 ... 8 VDC

Amplifiers required for mini-series sensors

Dimensions are in mm.

DC Amplifier
LSA - 45/30/15-P-NO
LSA - 45/30/15-P-NC
LSA - 45/30/15-N-NO
LSA - 45/30/15-N-NC



Technical Data:		Wiring and Mounting Info	
Switching frequency:	100 Hz	Residual voltage U_A L-signal:	approx. 1.4 VDC
Ambient temperature:	-30 ... +70°C	Residual voltage U_A H-signal:	approx. U_B VDC
Protection class IEC60529 (housing):	IP65	Short circuit protection:	Yes
Housing material:	Duroplast type 31	Overload protection:	Yes
Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR	EMF protection:	Yes
Supply voltage U_B:	10 .. 35 VDC	Reverse polarity protection:	Yes
Permissible ripple:	≤ 10% U_B	Supply voltage:	Green LED
No-load current (24 VDC):	approx. 10 mA	Output function indicator:	Yellow LED
Output current I_A maximum:	300 mA	Connection for sensor:	Special connector
Max. switching power:	7.2 W	Sensing distance:	Adjustable
Supply voltage for sensor:	4 ... 8 VDC	Conformity:	CE

Design and technical details subject to change. Sensor cap color and cable color subject to change.

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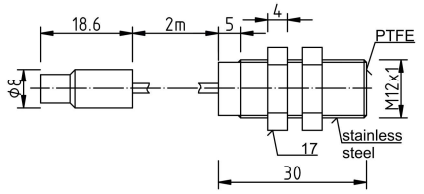
CAPACITIVE SENSORS - BONDING

Sensing Distance Sn 0...4 or 8 mm adjustable

Locon Sensor Systems, Inc.

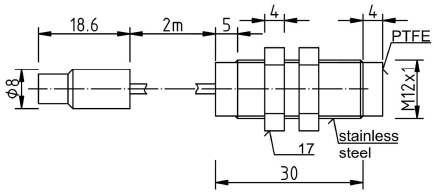
Dimensions are in mm.

M12
Part Number:
LCA - M12 - 4 - F
flush mount



Dimensions are in mm.

M12
Part Number:
LCA - M12 - 8 - NF
non-flush mount



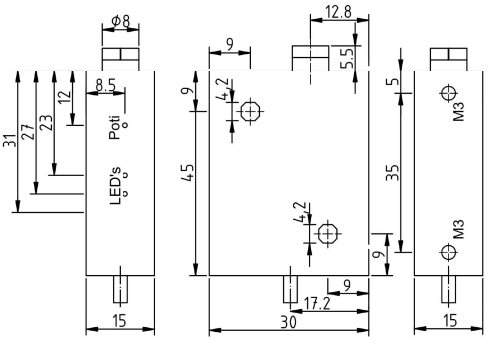
These sensors share the following specifications:

Hysteresis H max. (% of Sr)	10%	Rated insulation voltage Ui:	75 VDC
Switching frequency:	100 Hz	Housing material:	Stainless steel
Repeat accuracy (% of Sr):	2.0 %	Sensor face:	PTFE
Ambient temperature:	-30. . . +80°C	Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR
Temperature drift max. (% of Sr):	20 %	Connection:	Special connector
Protection class IEC 60529:	IP 67	Supply voltage with amplifier	4 ... 8 VDC

Amplifiers required for mini-series sensors

Dimensions are in mm.

DC Amplifier
LSA - 45/30/15-P-NO
LSA - 45/30/15-P-NC
LSA - 45/30/15-N-NO
LSA - 45/30/15-N-NC



Technical Data:		Wiring and Mounting Info	
Switching frequency:	100 Hz	Residual voltage U_A L-signal:	approx. 1.4 VDC
Ambient temperature:	-30 ... +70°C	Residual voltage U_A H-signal:	approx. U_B VDC
Protection class IEC60529 (housing):	IP65	Short circuit protection:	Yes
Housing material:	Duroplast type 31	Overload protection:	Yes
Connection cable 2m +/- 5%:	3 x 0.14 mm² PUR	EMF protection:	Yes
Supply voltage U_B:	10 .. 35 VDC	Reverse polarity protection:	Yes
Permissible ripple:	≤ 10% U_B	Supply voltage:	Green LED
No-load current (24 VDC):	approx. 10 mA	Output function indicator:	Yellow LED
Output current I_A maximum:	300 mA	Connection for sensor:	Special connector
Max. switching power:	7.2 W	Sensing distance:	Adjustable
Supply voltage for sensor:	4 ... 8 VDC	Conformity:	CE

Design and technical details subject to change. Sensor cap color and cable color subject to change.

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