

# CAPACITIVE SENSORS - PROXIMITY SERIES



**Switching frequency:**  
200 Hz

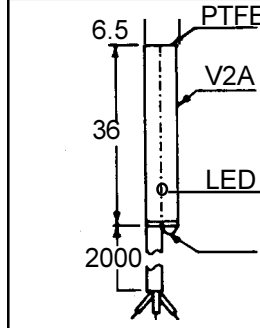
**Housing material:**  
V2A/PTFE

**Output current:**  
200mA

**Max. switching power:**  
4.8 W

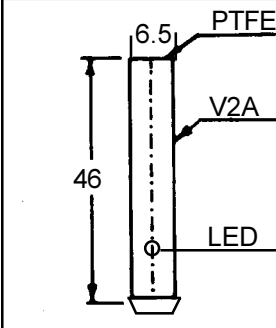
**Ambient temperature:**  
-10 ... +70°C

6.5 Ø Sensing distance Sn:  
◆ 1.5 mm ± 10%



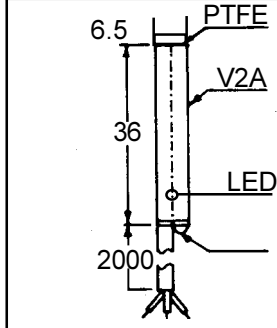
LCC-6.5/36-1.5-F-P-NO  
LCC-6.5/36-1.5-F-P-NC  
LCC-6.5/36-1.5-F-N-NO  
LCC-6.5/36-1.5-F-N-NC  
3 x 0.14 mm<sup>2</sup> PUR cable

6.5 Ø Sensing distance Sn:  
◆ 1.5 mm ± 10%



LCCQ-6.5/46-1.5-F-P-NO  
LCCQ-6.5/46-1.5-F-P-NC  
LCCQ-6.5/46-1.5-F-N-NO  
LCCQ-6.5/46-1.5-F-N-NC  
Connector Z10, Z11

6.5 Ø Sensing distance Sn:  
■ 3 mm ± 10%



LCC-6.5/36-3-NF-P-NO  
LCC-6.5/36-3-NF-P-NC  
LCC-6.5/36-3-NF-N-NO  
LCC-6.5/36-3-NF-N-NC  
3 x 0.14 mm<sup>2</sup> PUR cable

**Connector or cable:**

**Switching frequency:**  
200 Hz

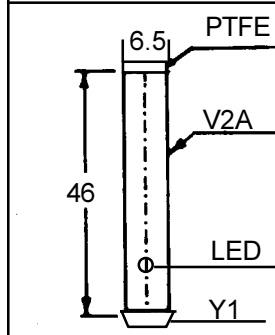
**Housing material:**  
V2A/PTFE

**Output current:**  
200mA

**Max. switching power:**  
4.8 W

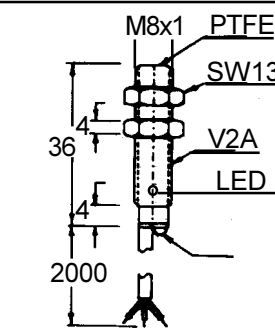
**Ambient temperature:**  
-10 ... +70°C

6.5 Ø Sensing distance Sn:  
■ 3 mm ± 10%



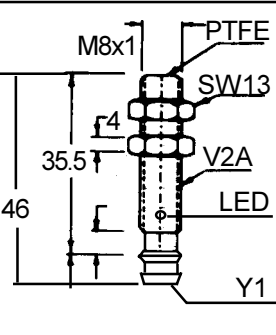
LCCQ-6.5/46-3-NF-P-NO  
LCCQ-6.5/46-3-NF-P-NC  
LCCQ-6.5/46-3-NF-N-NO  
LCCQ-6.5/46-3-NF-N-NC  
Connector Z10, Z11

M8 Sensing distance Sn:  
◆ 1.5 mm ± 10%



LCC-M8/36-1.5-F-P-NO  
LCC-M8/36-1.5-F-P-NC  
LCC-M8/36-1.5-F-N-NO  
LCC-M8/36-1.5-F-N-NC  
3 x 0.14 mm<sup>2</sup> PUR cable

M8 Sensing distance Sn:  
◆ 1.5 mm ± 10%



LCCQ-M8/46-1.5-F-P-NO  
LCCQ-M8/46-1.5-F-P-NC  
LCCQ-M8/46-1.5-F-N-NO  
LCCQ-M8/46-1.5-F-N-NC  
Connector Z10, Z11

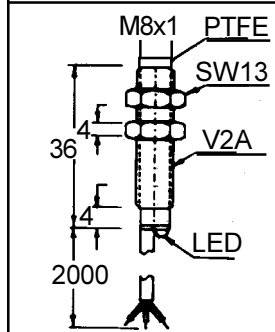
**Connector or cable:**

**Housing material:**  
V2A/PTFE

**Output current:**  
200mA

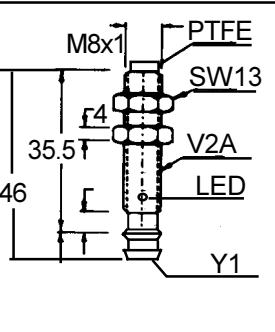
**Max. switching power:**  
4.8 W

M8 Sensing distance Sn:  
■ 3 mm ± 10%



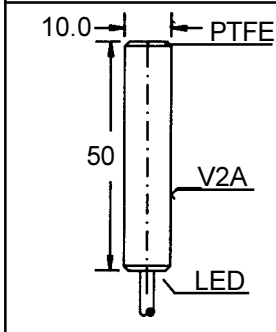
LCC-M8/36-3-NF-P-NO  
LCC-M8/36-3-NF-P-NC  
LCC-M8/36-3-NF-N-NO  
LCC-M8/36-3-NF-N-NC  
3 x 0.14 mm<sup>2</sup> PUR cable

M8 Sensing distance Sn:  
■ 3 mm ± 10%



LCCQ-M8/46-3-NF-P-NO  
LCCQ-M8/46-3-NF-P-NC  
LCCQ-M8/46-3-NF-N-NO  
LCCQ-M8/46-3-NF-N-NC  
Connector Z10, Z11

10 Ø Sensing distance Sn:  
◆ 1... 4 mm adjustable



LCC-10-4-F-P-NO  
LCC-10-4-F-P-NC  
LCC-10-4-F-N-NO  
LCC-10-4-F-N-NC  
3 x 0.14 mm<sup>2</sup> PUR cable

**Connector or cable:**  
**Switching frequency:**  
**Ambient temperature:**

3 x 0.14 mm<sup>2</sup> PUR cable  
200 Hz  
-10 ... +70°C

Connector Z10, Z11  
200 Hz  
-10 ... +70°C

3 x 0.14 mm<sup>2</sup> PUR cable  
100 Hz  
-30 ... +70°C

# CAPACITIVE SENSORS - PROXIMITY SERIES

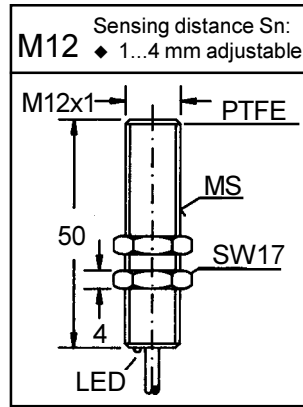


**Switching frequency:**  
100 Hz

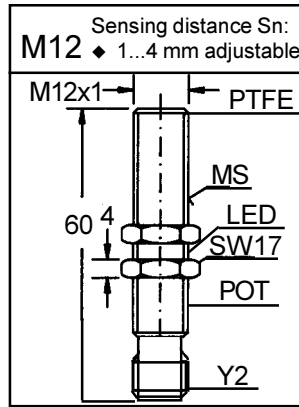
**Housing material:**  
As shown in drawing

**Ambient temperature:**  
-30 ... +70°C

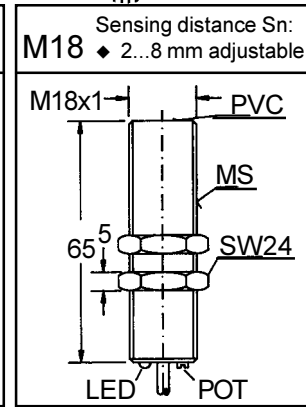
**Connector or cable:**  
**Output current:**  
**Max. switching power:**



LCC-M12-4-F-P-NO  
LCC-M12-4-F-P-NC  
LCC-M12-4-F-N-NO  
LCC-M12-4-F-N-NC  
3 x 0.14 mm<sup>2</sup> PUR cable  
200mA  
4.8 W



LCCQ-M12-4-F-P-NO  
LCCQ-M12-4-F-P-NC  
LCCQ-M12-4-F-N-NO  
LCCQ-M12-4-F-N-NC  
3 x 0.25 mm<sup>2</sup> PUR cable  
200mA  
7.2 W



LCC-M18-8-F-P-NO  
LCC-M18-8-F-P-NC  
LCC-M18-8-F-N-NO  
LCC-M18-8-F-N-NC  
3 x 0.25 mm<sup>2</sup> PUR cable  
300mA  
7.2 W

**Switching frequency:**  
100 Hz

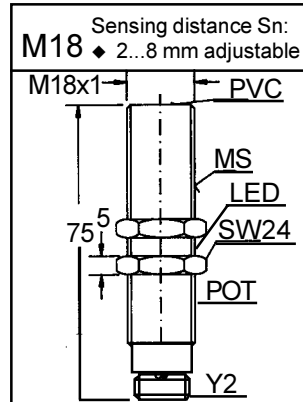
**Housing material:**  
As shown in drawing

**Output current:**  
300mA

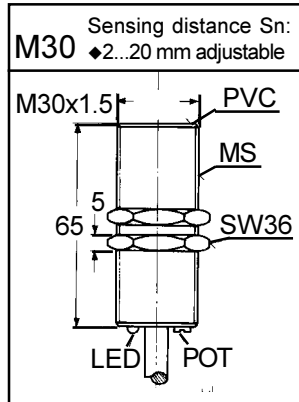
**Max. switching power:**  
7.2 W

**Ambient temperature:**  
-30 ... +70°C

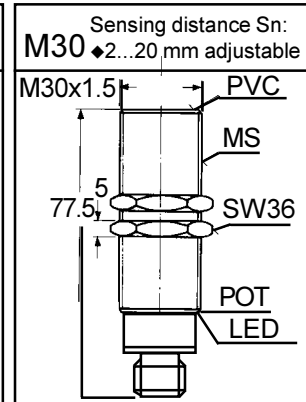
**Connector or cable:**



LCCQ-M18-8-F-P-NO  
LCCQ-M18-8-F-P-NC  
LCCQ-M18-8-F-N-NO  
LCCQ-M18-8-F-N-NC  
Connector Z20, Z21



LCC-M30-20-F-P-NO  
LCC-M30-20-F-P-NC  
LCC-M30-20-F-N-NO  
LCC-M30-20-F-N-NC  
3 x 0.5 mm<sup>2</sup> PUR cable



LCCQ-M30-20-F-P-NO  
LCCQ-M30-20-F-P-NC  
LCCQ-M30-20-F-N-NO  
LCCQ-M30-20-F-N-NC  
Connector Z20, Z21

**PART NUMBER KEY:**

Example:  
LCC - 10 - 4 - F - P - NO

LCC Proximity sensor  
LCC = cable connect  
LCCQ = quick disconnect

10 Housing diameter (mm)  
M = thread size

4 Maximum sensing distance (mm)

F Mounting  
F = Flush  
NF = Non-flush

P Output  
P = PNP output  
N = NPN output

NO NO = Normally open  
NC = Normally closed

**Technical Data:**

Switching hysteresis  
Switchpoint reprod. (T = const.)  
Temperature drift  
Protection class DIN 40050  
Supply voltage  $U_B$   
Permissible ripple  
No-load current (24 VDC)  
Residual voltage  $U_A$  L-signal  
Residual voltage  $U_A$  H-signal  
Short circuit protection  
Overload protection  
EMF protection  
Reverse polarity protection

typ. 15% of Sn  
 $\leq 0.01$  mm  
approx. 0.025 mm/°C  
IP 65 - IP 67  
10 .. 30 VDC  
 $\leq 10\%$   $U_B$   
approx. 10 mA  
approx. 0.8 VDC  
approx.  $U_B$  VDC  
Included  
Included  
Included  
Included