

### Monoblock buzzers



LPC ZS...



LPC ZS...IP

Order code	Voltage	Sound intensity at 2800Hz	Qty per pkg.	Wt
	[V]	[dB/10cm]	n°	[kg]

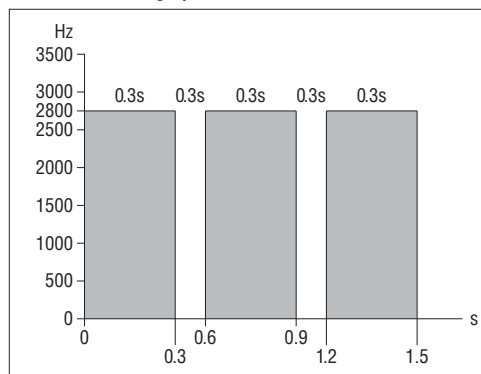
Continuous or pulse tone, IP40 version.

LPC ZSA	9...15VAC/DC	90	1	0.020
LPC ZSB	18...30VAC/DC	90	1	0.020
LPC ZSE	85...140VAC/DC	90	1	0.020
LPC ZSM	185...265VAC/DC	90	1	0.020

Continuous or pulse tone, IP66, IP67, IP69K, UL Type 4X version.

LPC ZSAIP	9...15VAC/DC	80	1	0.020
LPC ZSBIP	18...30VAC/DC	80	1	0.020
LPC ZSEIP	85...140VAC/DC	80	1	0.020
LPC ZSMIP	185...265VAC/DC	80	1	0.020

#### Pulse-tone sound graph



#### General characteristics

Monoblock buzzers are used as sound indicators in automation systems and on-board machinery in the production processes.

Long life, low consumption values, compact size and the use of materials, in accordance with the North American market, are the main features of this product.

#### Operational characteristics

- Rated frequency: 50...60Hz
- Supply voltage: 9...15VAC/DC, 18...30VAC/DC, 85...140VAC/DC, 185...265VAC/DC
- Maximum absorption: 20mA-0.30W (type 9...15VAC/DC), 15mA-0.40W (type 18...30VAC/DC), 5.5mA-0.80W (type 85...140VAC/DC), 3.5mA-0.95W (type 185...265VAC/DC)
- Minimum activation voltage: >4V (type 9...15VAC/DC), >8V (type 18...30VAC/DC), >15V (type 85...140VAC/DC), >25V (type 185...265VAC/DC)
- Impulse withstand voltage  $U_{imp}$ : 4kV
- Installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring ( $T_{max} = 2.3Nm/1.69lbf$ ) also on the cover of LPZ control stations
- Service life: 30,000 hours (permanently powered)
- Side cable entry
- Ambient conditions:
  - Operating temperature: -25...+70°C
  - Storage temperature: -40...+85°C
- Degree of protection (type LPC ZS...IP):
  - per IEC/EN: IP66, IP67, IP69K on front and IP20 at rear
  - per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front.

#### Materials

Polyamide.

#### Maximum conductor cross section

Screw terminal connections with three separate connections:

- Min. cable 0.5mm<sup>2</sup> / AWG24
- Max. cable 2.5mm<sup>2</sup> / AWG14
- Maximum tightening torque: 0.5Nm/0.37lbf
- Flat-head screwdriver: 0.6x3.5mm/0.02x0.14"

#### Certifications and compliance

Certifications obtained: cULus, EAC, CCC (pending), RINA (pending).

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

### USB and RJ45 communication interfaces



LPC D01



LPC D05

new

new

Order code	Description	Qty per pkg.	Wt
		n°	[kg]
LPC D01	USB interface, A/A female type connection	1	0.018
LPC D01 L050	USB interface, A/A female connection with 0.5m long cable	1	0.050
LPC D01 L100	USB interface, A/A female connection with 1m long cable	1	0.080
LPC D03	USB interface, A/B female type connection	1	0.018
LPC D05	USB interface, B/A female type connection	1	0.018
LPC D06	RJ45 interface, Ethernet connection type	1	0.026
LPC D06 L100	RJ45 interface, Ethernet connection with 1m long cable	1	0.090

#### General characteristics

USB and RJ45 communication interface connectors are used in industrial environments, which in recent years have seen an increase in the number of connections between machines, production lines, equipment and measuring instruments. These interfaces provide the transmission of data in both directions between the various devices.

#### Operational characteristics

- Rated insulation voltage for LPCD01, LPCD03, LPCD05: 5VAC/DC
- Rated insulation voltage for LPCD06: 24VAC
- Interface mechanical endurance: ≥750 insertions
- Installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring ( $T_{max} = 2.3Nm/1.69lbf$ ) also on the cover of LPZ control stations
- Transmission characteristics for LPCD01, D03, D05: 5Gbps (625MB/sec)
- Transmission characteristics for LPCD06: 10 Gigabit Ethernet IEEE 802.3an-2006
- Rated current for LPCD01, LPCD03, LPCD05: 1.8A
- Rated current for LPCD06: 1.5A
- Insulation resistance: ≥100MΩ
- Contact resistance for LPCD01, LPCD03, LPCD05: ≤30mΩ
- Contact resistance for LPCD06: ≤40mΩ
- USB connector class: 3.0 (backward compatible with USB class 2.0)
- Ambient conditions:
  - Operating temperature: -25...+70°C
  - Storage temperature: -40...+85°C
- Degree of protection:
  - Per IEC/EN: IP65 on front (with cap mounted)
  - Per IEC/EN: IP20 at rear
  - Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front (with cap mounted)

#### Materials

Polyamide.

#### Certifications and compliance

Certifications obtained: cULus, EAC, CCC (pending), RINA (pending).

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.