Intercom

Security window..... 102
LEM 103
LEF 105
MC-60/4A..... 108
YAZ..... 109
TD-HB 110
NIM 112
TC-M..... 114

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Intercom system SECURITY WINDOW

1 door 1 room

> IMEKIT

FEATURES

- The slender acoustic tube does not obstruct the image view area
- Holes in the glass barrier are not necessary for installation
- Using an acoustic tube with noise canceling
- Voice-actuated hands-free communication
- Gooseneck microphone
- Optional mono type headset (3.5 mm mono connector Jack)
- Detection sensor switches automatically to communication mode
- Separate external speaker or AS-3N
- Waiting room call

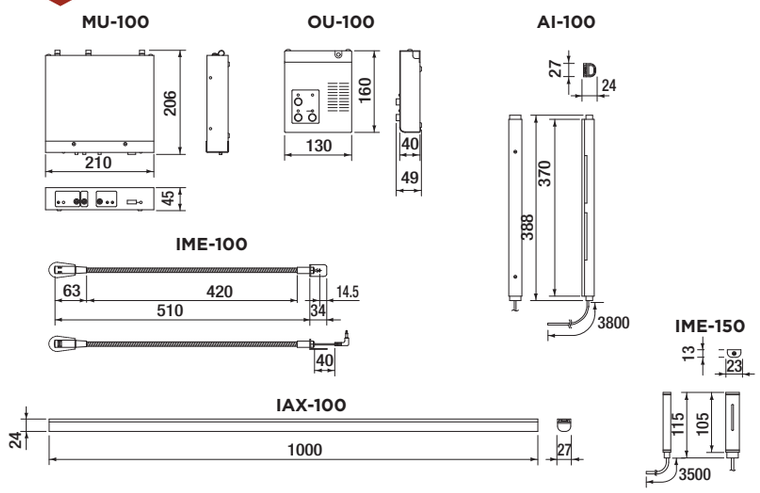
PS-2420DM

IMEKIT
Kit consisting of:
- Gooseneck microphone
- 1 mic. base
- Amplifier
- Power supply
- Mic. & speaker
- Acoustic tube

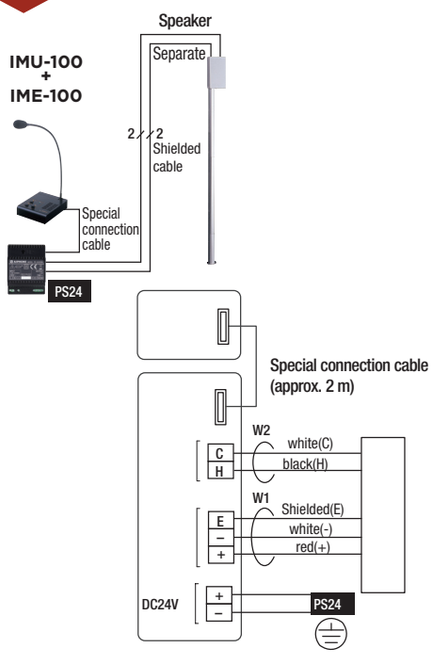
IME-100
Gooseneck microphone

IAX-100
Acoustic Tube extension (Indispensable to the system)

DIMENSIONS (mm)



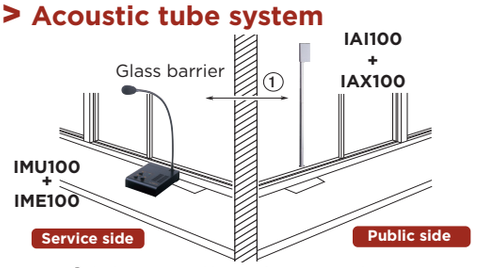
WIRING



SPECIFICATIONS

Power supply	24 VDC
Consumption	120 mA (standby) 780 mA (maximum)
Operating temperature	0°C to 40°C
Communication	Voice-actuated communication
Transmit output	3 W 4 ff Receive output: 1.5 W 16 ff
Headset	Jack 3.5 mm mono Connector impedance: 32 ff Normal power absorbance: 40 mW or more Maximum input: 100 mW or more
External speaker	Impedance: 4 to 8 ff Normal power absorbance: 3 W minimum or more Maximum input: 6 W minimum or more

> Acoustic tube system



① Voice-actuated hands-free communication

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Loudspeaker intercom 1 MASTER

1 master 1 sub

> LEM-1DL • LE-D • LE-DA

FEATURES

- Communication system - ideal for small offices, retail stores, warehouses, docks, etc.
- Transmission/reception volume control (on front plate)
- AC or DC power supply

LEM-1DL
Master station with door release button

LE-DA
Door station, sealed, flush mount, stainless steel

LEDI
Vandal-resistant door station, surface mount stainless steel

LEDIE
Vandal-resistant flush mount stainless steel door station

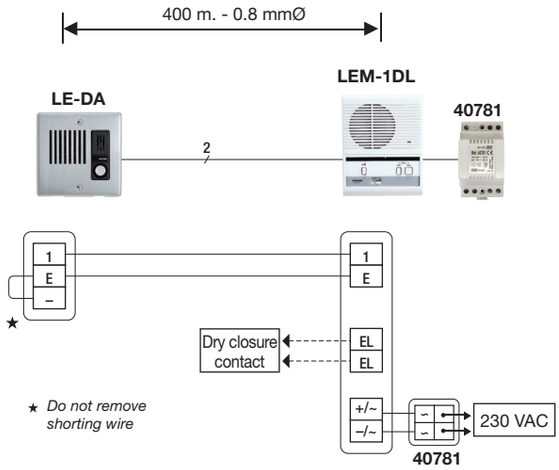
40781
Power supply

LE-D
Door station, surface mount, ABS

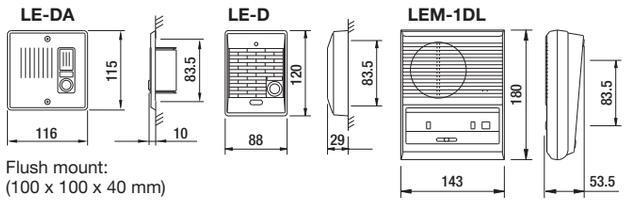
CISSS2G
Hooded surface mount box for LE-DA

EL-12S
Electric door strike

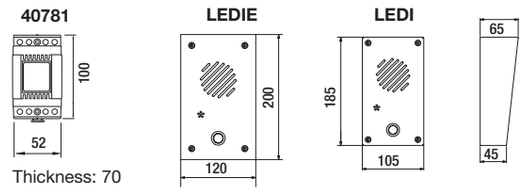
WIRING



DIMENSIONS (mm)

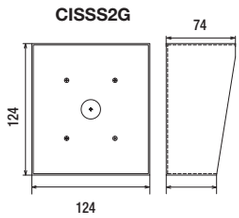


Flush mount:
(100 x 100 x 40 mm)



Thickness: 70

Flush mount:
(180 x 100 x 40 mm)



SPECIFICATIONS

Power source	12-16 VAC, 4VA 12-24 VDC, 200 mA (24 V)
Power supply	AC transformer, PS-1225DM
Communication	When called by tone, press TALK to reply. Press door release button to release door, and press OFF for standby.
Wiring	2 wires, non-polarized (+2 for Electric door strike)
Distance	LEM-1DL to door 200 m (0.65 mm Ø) 300 m (0.8 mm Ø)

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Selective intercoms 1 - 3 MASTERS

1 master 3 sub

> LEM-1 • LEM-3

FEATURES

- Communication system - ideal for small offices, retail stores, warehouses, docks, etc.
- Transmission/reception volume control (on front plate)
- AC or DC power supply

LEM-1
1-call master

LEM-3
3-call master

LE-A
Desktop/wall mount sub station

LE-A3
3-call sub station

LE-AN
Desk/wall sub station w/ privacy

LEDIE
Vandal-resistant flush mount stainless steel sub station

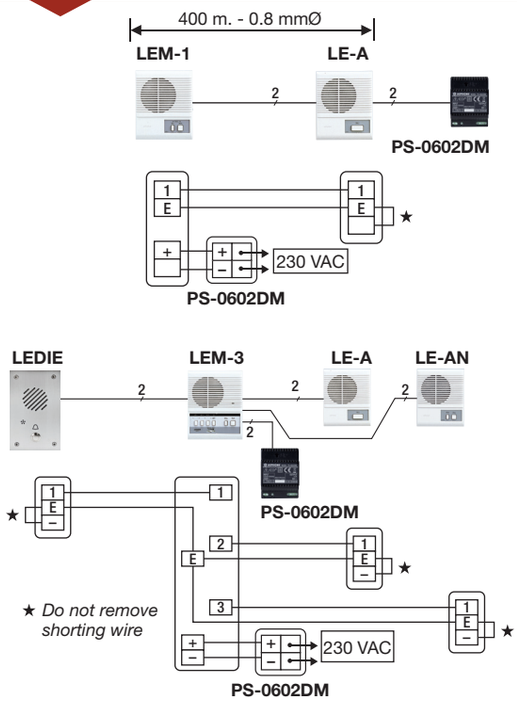
PS-0602DM
Power supply

LE-DA
Door station, sealed, flush mount, stainless steel

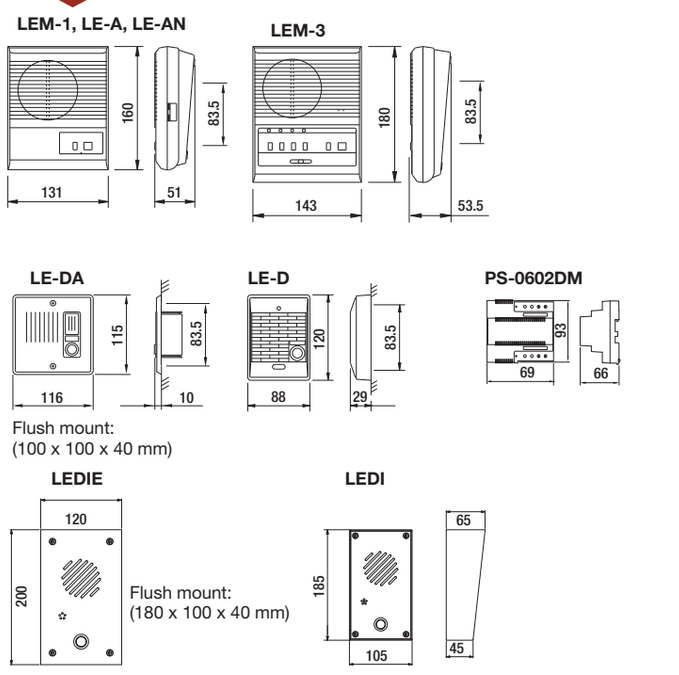
LE-D
Door station, surface mount, ABS

LEDI
Vandal-resistant sub station, surface mount stainless steel

WIRING



DIMENSIONS (mm)



SPECIFICATIONS

Power supply	6 VDC (PS-0602DM)
Consumption	200 mA
Communication	Sub calls in w/tone & LED, 20 sec. Depress selector button and press or release TALK button. Sub called by tone or voice, reply hands-free

Wiring	2 wires (non-polarized)
Distance	Between master station and each sub station: 400 m

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INTERMIXED LOUDSPEAKER intercom

4 masters

> LEF-3

FEATURES

- System allows the connection of 4 master stations with all call, or up to 3 audio sub stations on the same master station
- All call and selective call
- Station-to-station wiring

LEF-3
3-call master

LE-A
Desktop/wall mount sub station

LE-A3
3-call sub station

LE-AN
Desk/wall sub station w/ privacy

PS-1225DM
Power supply

LEDIE
Vandal-resistant flush mount stainless steel sub station

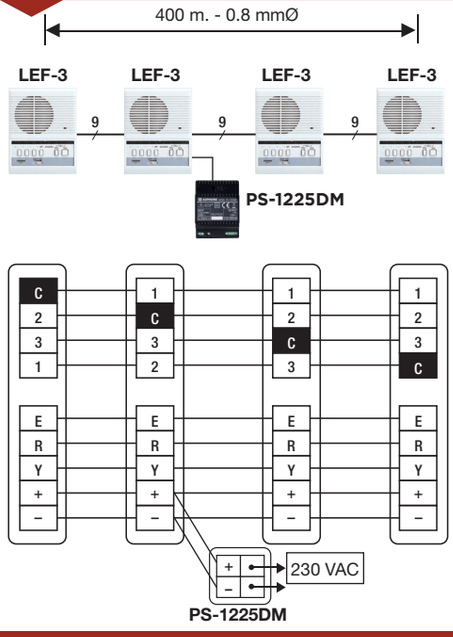
LE-DA
Door station, sealed, flush mount, stainless steel

CISSS2G
Hooded surface mount box for LE-DA

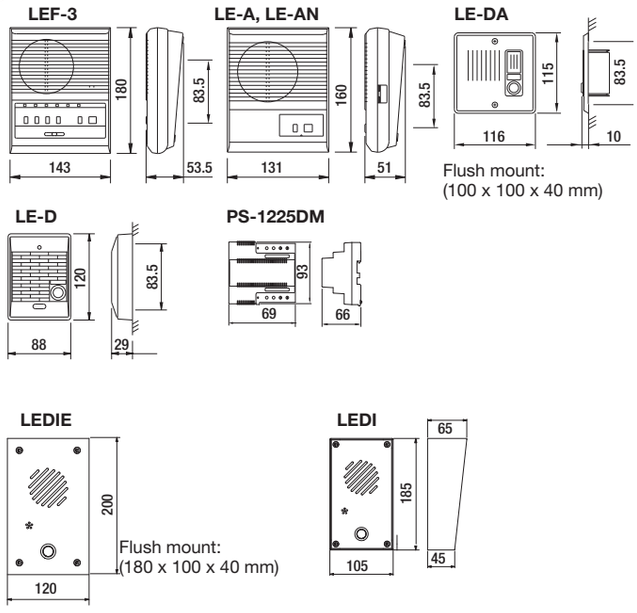
LE-D
Door station, surface mount, ABS

LEDI
Vandal-resistant sub station, surface mount stainless steel

WIRING



DIMENSIONS (mm)



SPECIFICATIONS LEF-3 • LEF-5 • LEF-10

Power supply	12 VDC (PS-1225DM)
Consumption	300 mA per station
Communication	Sub calls in w/tone (chime) & LED 20 sec. Depress the LED selector button. Between master, depress a selector, and call by voice or tone. Reply hands-free (no LED when master calls in).
Door open	LEF-5 & LEF-10 only: dry closure contact via RY-PA
xLEF-3 wiring	10 wires between master station
LEF-5 wiring	In intercommunication: 5 common wires (6 if door release)
& LEF-10	+ 1 separate wire per LEF station • 2 wires from each sub to the master station (3 wires if more than one master)
Distance	Between 1st and last LEF: 400 m (station-to-station wiring)

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INTERMIXED LOUDSPEAKER INTERCOM

> LEF-5 • LEF-10

FEATURES

- System allows the connection of 11 master stations with all call, or up to 10 audio sub stations on the same master station
- All call and selective call
- Station-to-station wiring
- Extension of the system with all call, chime and relay

LEF-5
5-call master
mount

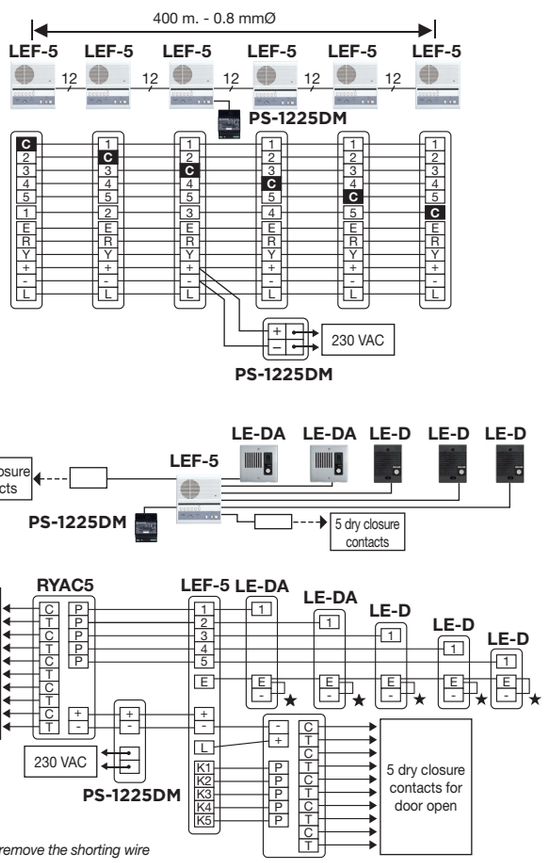
LEF-10
10-call master

LEF-10S
10-call master
with ALL CALL button

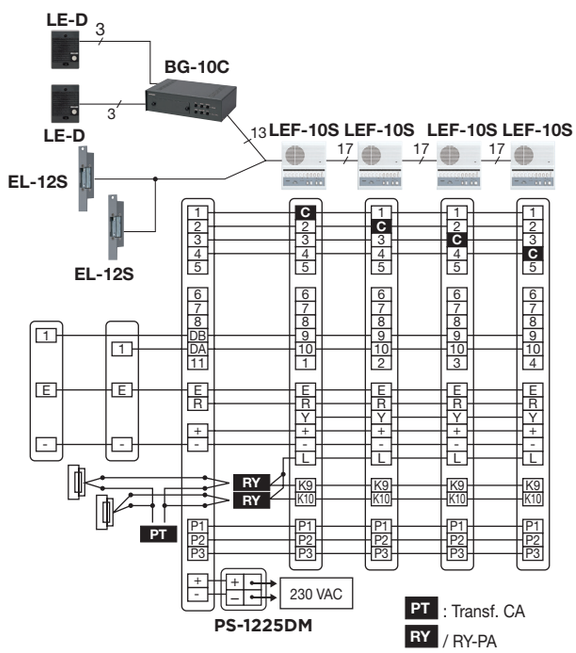
PS-1225DM
Power supply

BG-10C
All call adaptor for LEF-10S
Music and Chime

WIRING



All call with LEF-10S + BG-10C



- LE-D call-in chimes on all LEF stations.
- Only LEF-10S station can start All Call.
- Match door strike terminals (Kn) with sentry numbers.

※ Provide additional PS-1225DM for use with BG-10C all call adaptor.

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LE-A
Desktop/wall mount sub station

LE-A3
3-call sub station

LE-AN
Desk/wall sub station w/ privacy

LEDIE
Vandal-resistant flush mount stainless steel sub station

LE-DA
Door station, sealed, flush mount, stainless steel

LE-D
Door station, surface mount, ABS

CISSS2G
Hooded surface mount box for LE-DA

LEDI
Vandal-resistant sub station, surface mount stainless steel

OPTIONS

EL-12S
Electric door release

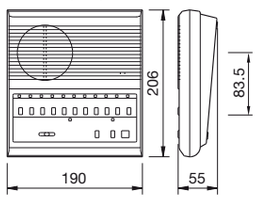
RY-PA
Door release relay

SC-615
Horn speaker
8 ohms

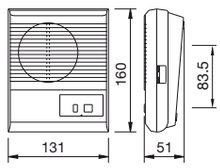
Terminal boxes for desktop use
LEW-5 for LEF-5
LEW-10 for LEF-10
LEW-10S for LEF-10S
RY-AC/A Auxiliary call device relay

DIMENSIONS (mm)

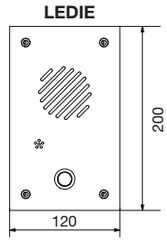
LEF-5, 10, 10S



LE-A, LE-AN

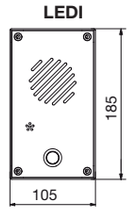


LEDIE

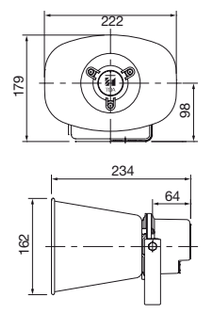


Flush mount:
(180 x 100 x 40 mm)

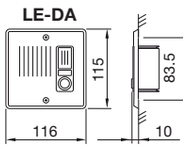
LEDI



SC-615

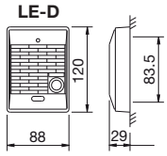


LE-DA

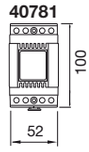


Flush mount:
(100 x 100 x 40 mm)

LE-D

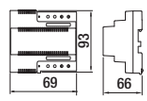


40781



Thickness: 70

PS-1225DM



SPECIFICATIONS LEF-5 • LEF-10

Power supply	12 VDC (PS-1225DM)
Consumption	300 mA per station
Communication	Sub calls in w/tone (chime) and LED 20 sec. timed. Depress the LED selector button. Between master, depress a selector, and call by voice or tone. Reply hands-free. No LED when master calls in.
Wiring	In intercommunication: 5 common wires (6 if door release) + 1 separate wire per LEF station 2 wires from each sub to the master station (3 wires if more than one master station)
Distance	Between 1st and last LEF: 400 m (station-to-station wiring)

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> MC-60/4A

FEATURES

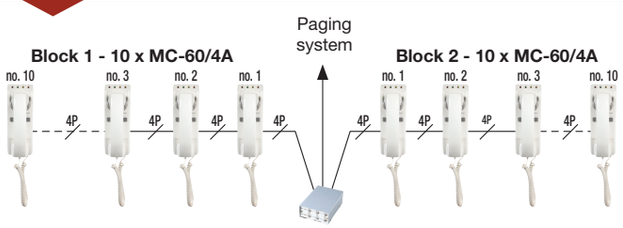
- Internal multi-channel paging and communication system.
- Up to 60 stations with 4 talk channels with in-use LEDs
- Pre-tone to announce an all call
- Conference call among 3 stations
- Pick up any handset; select a channel number and talk

MC-60/4A
Master

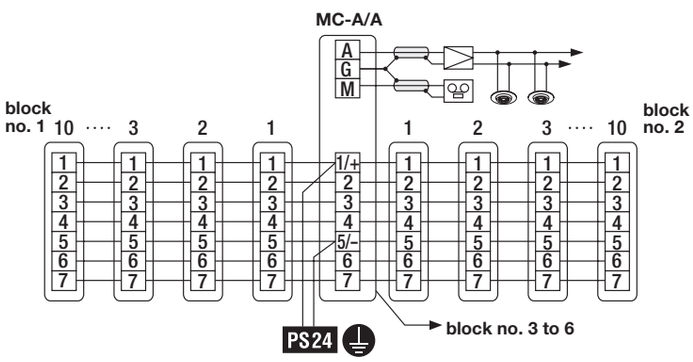
MC-A/A
Paging adaptor
(Required for
installation of MC-604)

PS-2420DM
Power supply

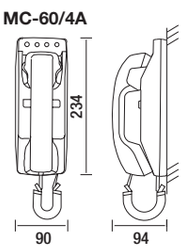
WIRING

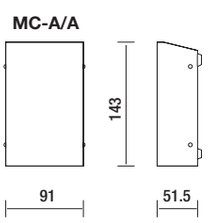


MC-A/A
MC-A/A capacity:
6 blocks of 10 MC-60/4A



DIMENSIONS (mm)





SPECIFICATIONS

Power supply	24 VDC, max. 70 mA. (in page) Use power supply PS-2420DM	
Communication	Pick up and depress channel selector 1 - 4 then call	
Talk path	4	
Wiring	7 wires in loop, non-twisted	
Total wiring distance	1500 m	
Distance	0.6 mm²	0.8 mm²
MC-A/A to last MC-60/4A in one block	500 m	750 m

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Intercom

HANDSET LOOP-WIRED intercom

90 stations

> YAZ-90-3W

FEATURES

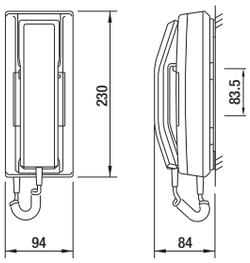
- 4-pair bus wiring
- Max. capacity: 90 stations in intercommunication and 3 talk paths
- Distance: 2900 m
- Communication features: camp-on-busy, secretary transfer, call transer
- Line-off on one channel does not affect the other channels

YAZ-90-3W
Master

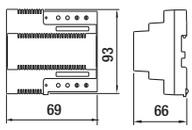
PS-2420DM
Power supply

DIMENSIONS (mm)

YAZ-90-3W



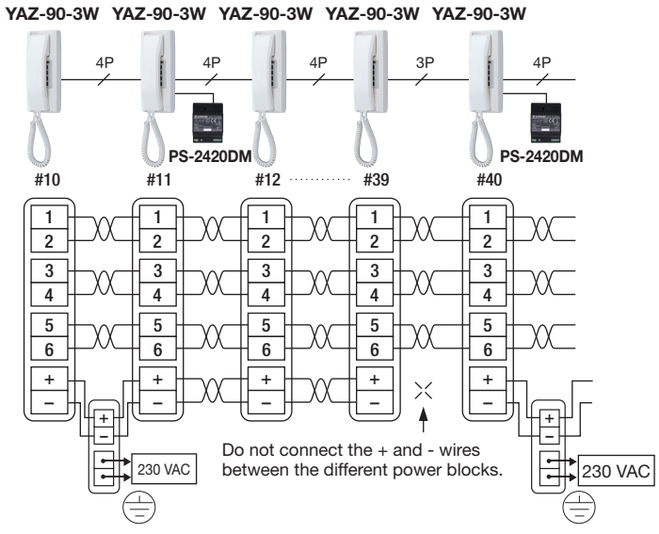
PS-2420DM



SPECIFICATIONS

Power supply	24 VDC, max. 150 mA. 20 mA standby	
Power source	PS-2420DM per 30 station block	
Communication	Dial 2-digit station # to ring other station. Tone or voice call by pressing PAGE button. Privacy communication on each channel (max. 3)	
Line loop resistance	Must not exceed 200 ff for farthest stations. 20 ff per power line	
Wiring	4 twisted pairs (shielded) in loop	
Total wiring distance	0.6 mm²	0.8 mm²
Farthest stations	1900 m	2900 m

WIRING



1 talk path: Terminal wires 1 & 2.
2 talk paths: Terminal wires 1, 2, 3 & 4.
3 talk paths: Terminal wires 1, 2, 3, 4, 5 & 6.
3 bus of 30 stations maximum.

1 PS-2420DM power supply per 30 station block.

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TD-H/B series SELECTIVE call intercoms

> SERIES PRESENTATION

FEATURES

- Selective intercom system up to 25 stations
- Station-to-station wiring
- Multi-channel conversation
- Optional door adaptor, zone paging on outdoor speakers

IE-JA
Flush mount door station stainless steel

IF-DA
ABS audio surface mount door station

DE-UR
Door adaptor

TD-1H/B
1-call master

TD-3H/B
3-call master

TD-6H/B
6-call master

TD-12H/B
12-call master

TD-24H/B
24-call master

CISSS2G
Hooded surface mount box for IE-JA

PS-1225DM
Power supply

SPECIFICATIONS

Power supply	12 VDC, 70 mA per station	
Power source	PS-1225DM	
Communication	Depress a station selector 1 - 12 and CALL (or CALL A for stations 13 to 24 for TD-24H/B) and lift handset to reply. Door calls in with intermittent tone, 2.5 sec. Pick up and depress the selector assigned.	
Wiring	2 common wires (+1 if door) + 1 separate wire per handset	
Distance	0.6 mm^2	0.8 mm^2
TD-H/B stations	650 m	1000 m
DE-UR to door	150 m	230 m

Note: The TD-1H/B handset cannot be connected to a door station.

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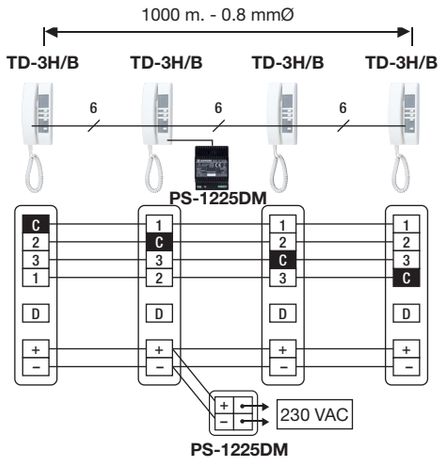
WIRING

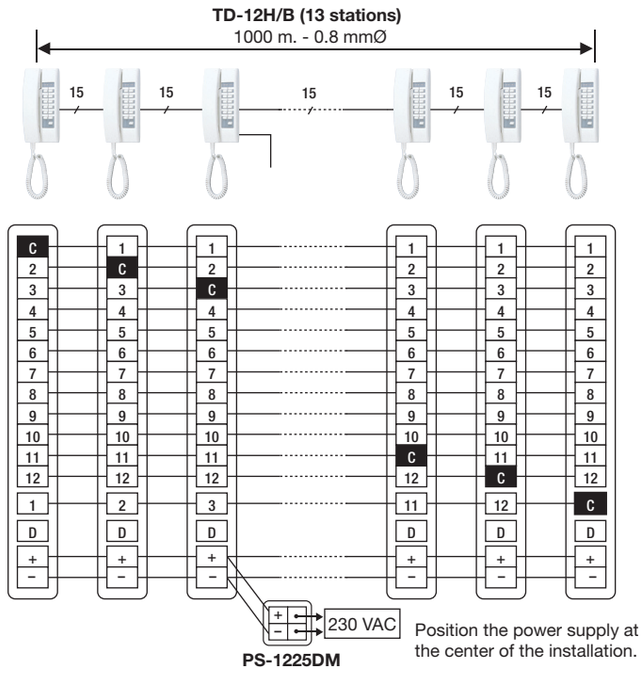
Install the maximum number of conductors necessary for each TD-nH/B station model.

Models	Capacity	Wire
TD-3H/B	4 stations	7 wires
TD-6H/B	7 stations	10 wires
TD-12H/B	13 stations	16 wires
TD-24H/B	25 stations	28 wires

TD-3H/B (4 stations)

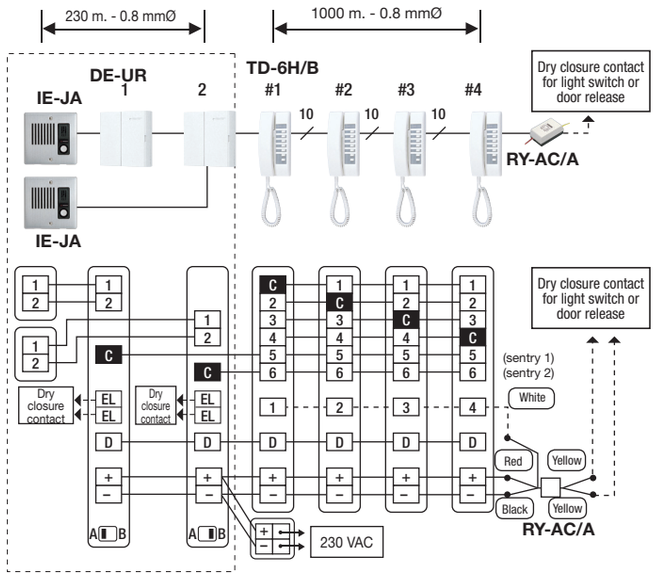


TD-12H/B (13 stations)

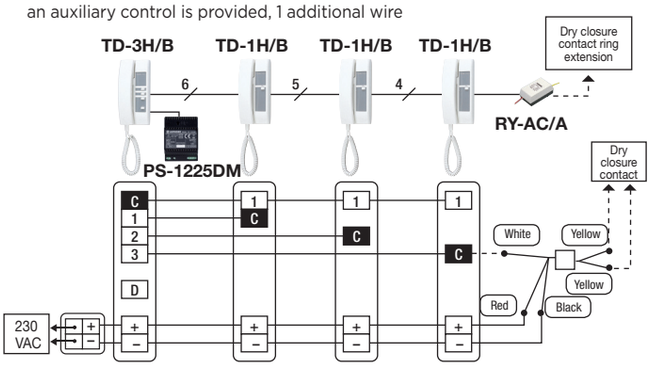


Position the power supply at the center of the installation.

Configuration with audio doors and door releases and auxiliary

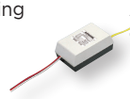


★ Install the DE-UR close to the power supply.
Wiring: 3 common wires + 1 separate wire per master If an auxiliary control is provided, 1 additional wire



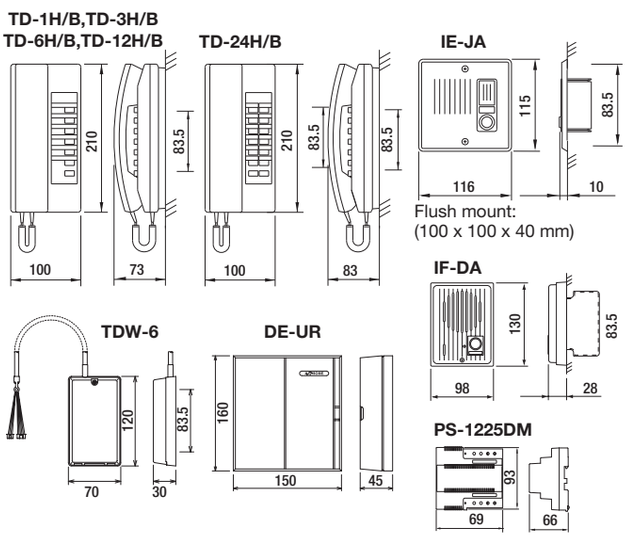
OPTIONS

PD-1
Zone paging



RY-AC/A
Auxiliary call device relay

DIMENSIONS (mm)



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Intercom NURSE CALL COMMUNICATION SYSTEM

> NIM-20B • NIM-40B

FEATURES

NIM can be used as a nurse call system for providing calls from patient rooms and bathrooms to nurse. Various system configurations offer application flexibility. PC connection makes it possible to check call history.

NIM system can be used for reliable communication: in challenging conditions and noisy environments. Doors can be opened in various commercial buildings applications.

- All call and group call
- Powerful sound
- Large variety of sub stations
- Call log
- 20 or 40 call capacity

NIM-20B
Master station, 20 call

NIM-40B
Master station, 40 call

NI-SOFT
Call log software
Accessory: RS-232 cable

IS-PUS
Power supply

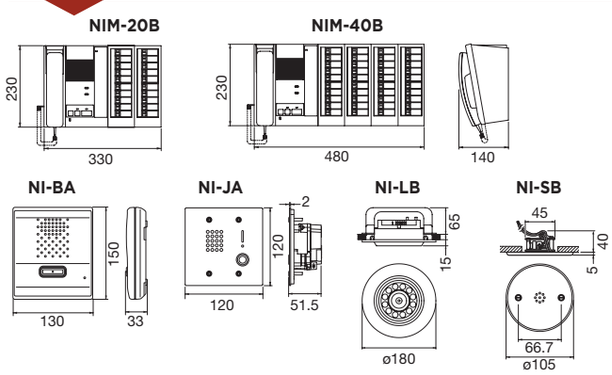
NI-BA
Sub station,
surface mount

NI-JA
Sub station,
flush mount

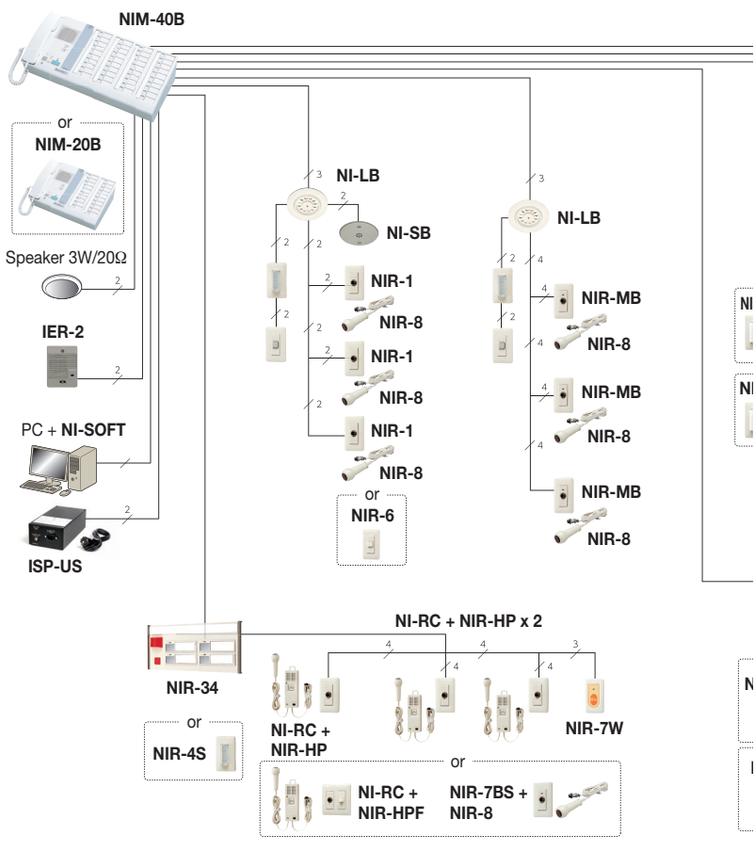
NI-LB
Ceiling speaker

NI-SB
Ceiling microphone

DIMENSIONS (mm)



WIRING



SPECIFICATIONS

Power source	48 VDC (supplied from the power supply)
Communication	Handset: Voice-actuated communication Open voice: Push-to-talk (PTT)

for PC for NI-SOFT

OS	Windows 7 Service Pack 1 / Home Premium / Professional / Ultimate (32/64-bit), Windows 8.1 / Pro (32/64-bit)
Processor	3 GHz or higher
System memory (RAM)	2 GB RAM or higher
Hard drive	100 MB or more (additional space is needed during installation)
Requirements	• RS232C port installed on the PC or an add-in board
	• CD-R readable drive
	• PC operable 24 hours a day
	• Display: 1024 (W) x 768 (H) or higher, 16-bit color or higher
	• Font: Arial
	• Run-time: Microsoft.NET Framework 4.5

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NIR-8
Handhed call button

NIR-1
Wall jack for NIR-8

NIR-MB
Wall jack with microphone for NIR-8

NIR-7BS
Call latching wall jack for NIR-8

NIR-6
Call button

NI-RC
Bedside handheld sub station

NIR-HP
Wall jack for NI-RC

NIR-HPF
Wall jack with hanger for NI-RC

NIR-7W
Bathroom call buttons

NIR-7HW
Bathroom call button with pull cord

NIR-4
Corridor light, single bed
NIR-4S
Corridor light, multiple beds

NIR-2
Call reset button

NIR-4BZ
Corridor light with buzzer

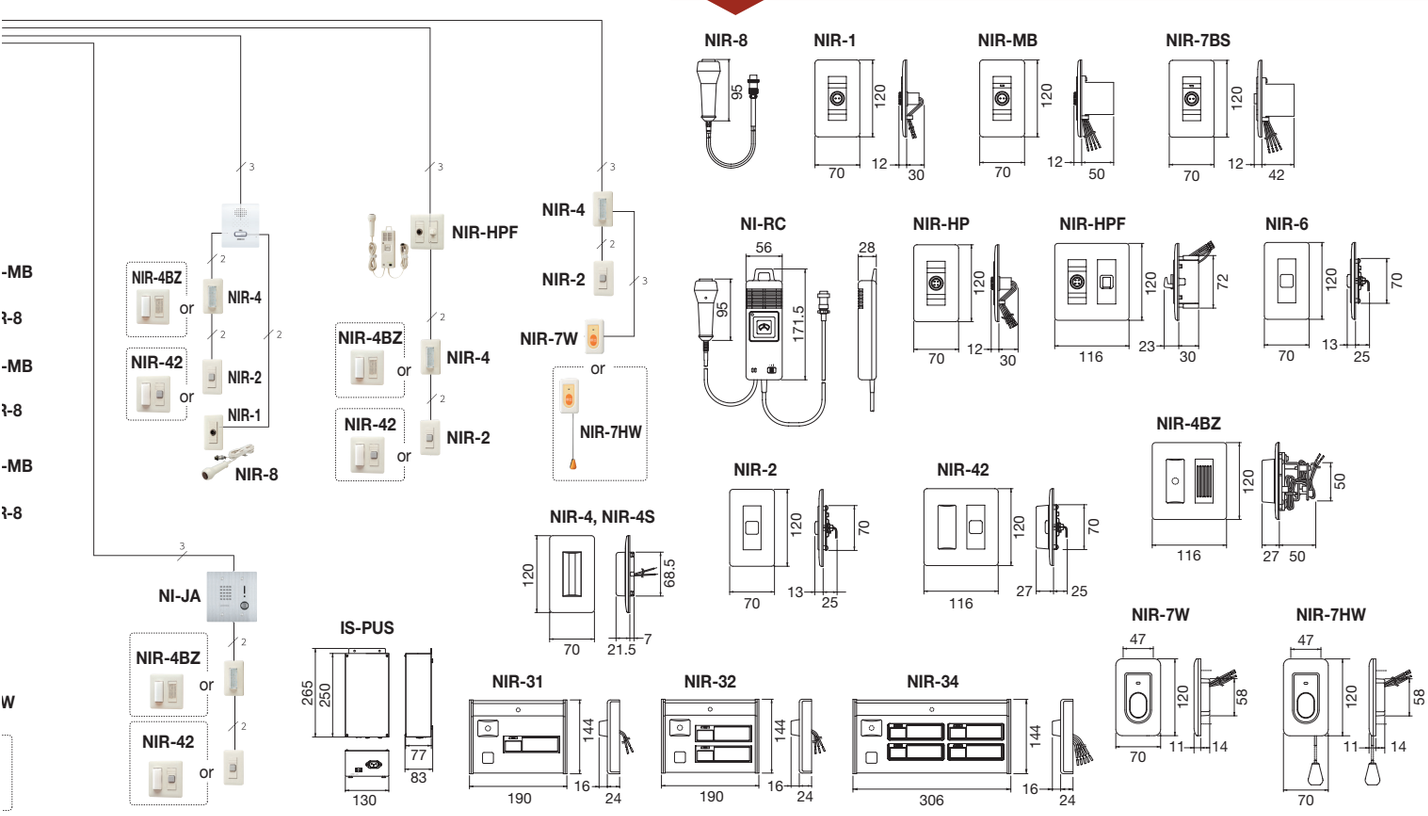
NIR-42
Corridor light with reset button

NIR-31
Corridor light with nameplate, 1 name

NIR-32
Corridor light with nameplate, 2 names

NIR-34
Corridor light with nameplate, 4 names

DIMENSIONS (mm)



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Intercom INTERNAL HANDSET type intercom

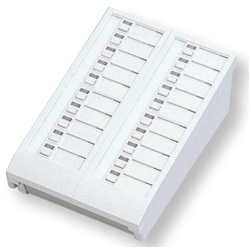
2 masters 100 sub

> TC-10M • TC-20M

FEATURES

- Large capacity intercom with handset
- Handset type sub stations call master by picking up
- Option to connect second master
- Call transfer from one sub station to another through master station

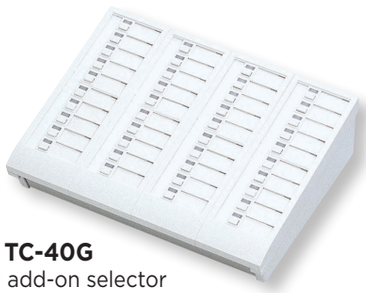
TC-10M
10-call master



TC-20G
20-call add-on selector

TB-SE
Sub station

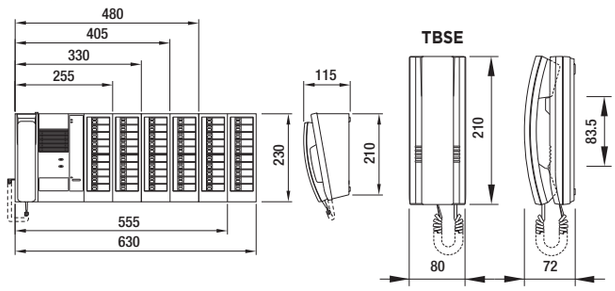
TC-20M
20-call master



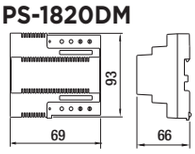
TC-40G
40-call add-on selector

PS-1820DM
Power supply

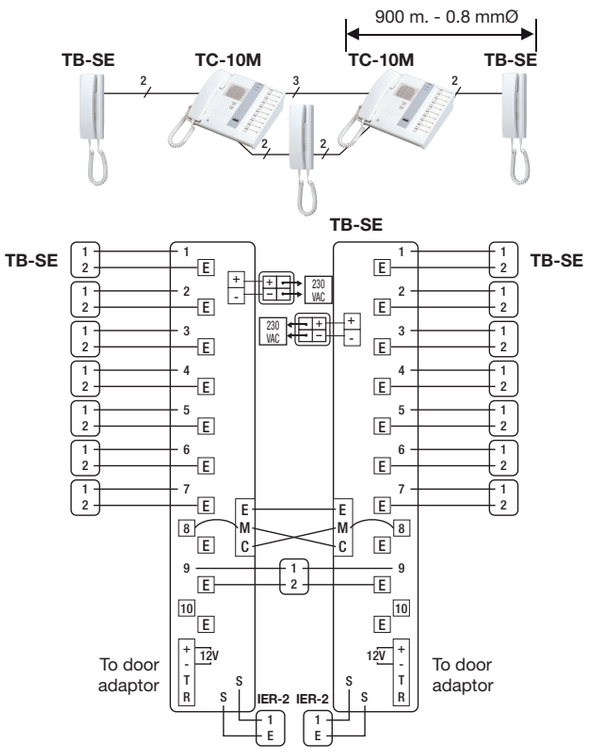
DIMENSIONS (mm)



PS-1820DM



WIRING



- Run 2 parallel wires per TB-SE. Use any E terminal for max. three TB-SEs
- Do not connect TB-SE sub wires or door station wires in parallel (in configuration with 2 masters).

SPECIFICATIONS

Power supply	18 VDC, 350 mA. 15-16 VAC, 50/60 Hz. 750 mA.	
Consumption	6 W. 3 W standby.	
Power source	PS-1820DM, supplied with master station	
Communication	Master is called by picking up TB-SE. Sub calls in with tone and LED. The call remains active while handset is picked up. Select a channel number on TC-M and pick up handset to reply.	
Wiring	2 parallel wires per TB-SE, non-polarized	
Distance	0.6 mm²	0.8 mm²
Between TC-M	200 m	480 m
TC-M to TB-SE	400 m	900 m

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Intercom

INTERNAL HANDSET
type intercom

2 masters **100** sub

> TB-AD1 • TB-AD10

FEATURES

- Large capacity intercom with handset
- Option to connect up to 40 audio door stations

TC-10M + TB-AD10
10-call master station + 10-door adaptor*

IF-DA
ABS audio surface mount door station

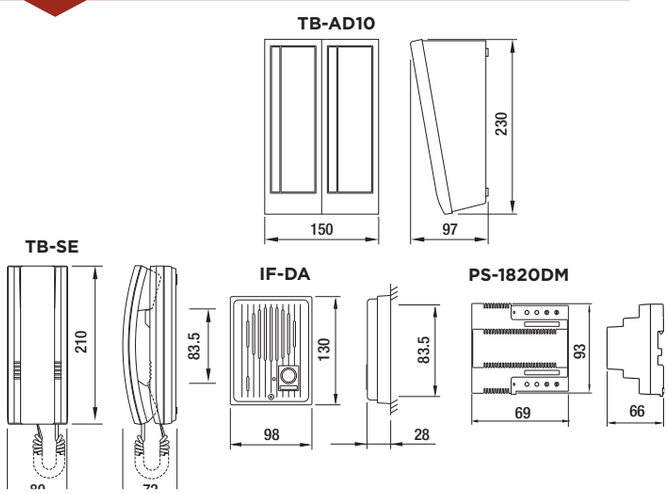
IE-JA
Flush mount door station stainless steel

CISSS2G
Hooded surface mount box for IE-JA

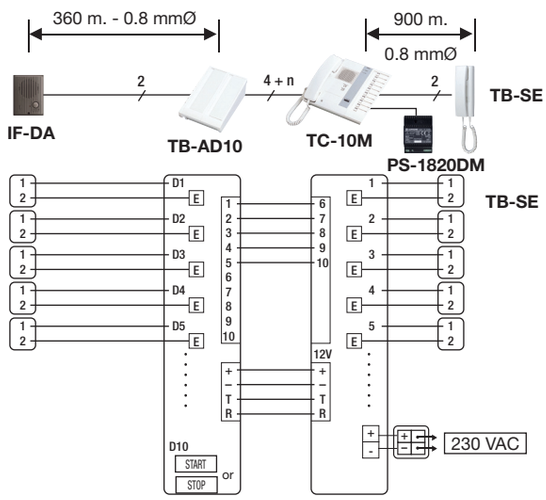
TB-SE
Sub station

★ No door release

DIMENSIONS (mm)



WIRING



SPECIFICATIONS

Power supply	TB-AD10: 12 VDC, supplied by TC-M	
System capacity	1 TB-AD10 2 & 3 TB-AD10 (provide 1 PS-1225DM) 4 TB-AD10 (provide 2 PS-1225DM)	
Communication	Door calls in w/tremolo & LED 40 sec. Pick up and depress LED lit selector. Pretone sounds at door or silenced.	
Wiring	Station to adaptor: 2 wires (per door station) (No door release control) Master station to adaptor: 4 wires + 1 per door sation	
Distance	0.6 mm²	0.8 mm²
TC-M to TB-AD10	65 m	150 m
TB-AD10 to IF-DA	150 m	360 m

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