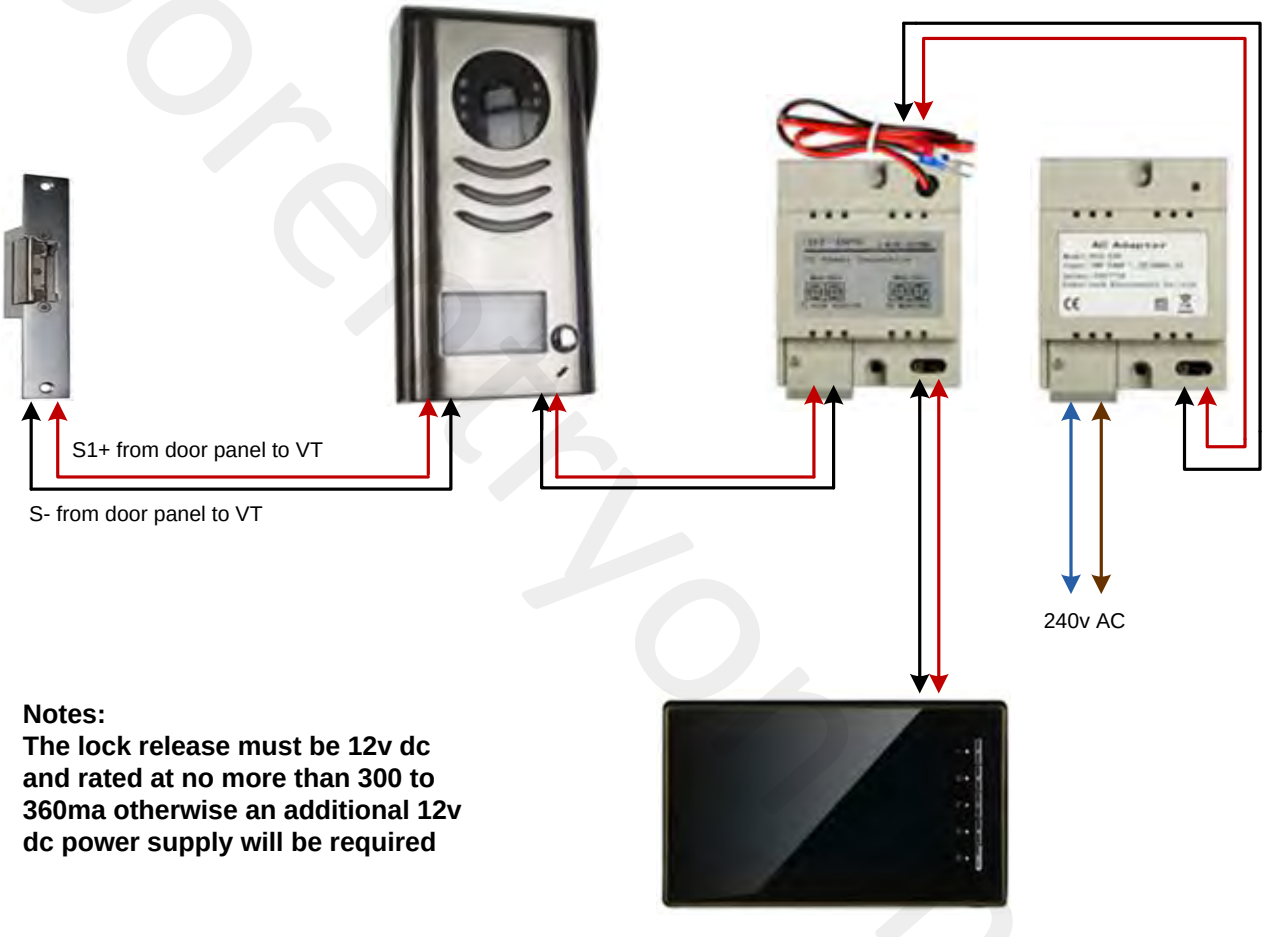
Connecting to a standard 12v dc 360ma lock release



Notes:
The lock release must be 12v dc and rated at no more than 300 to 360ma otherwise an additional 12v dc power supply will be required

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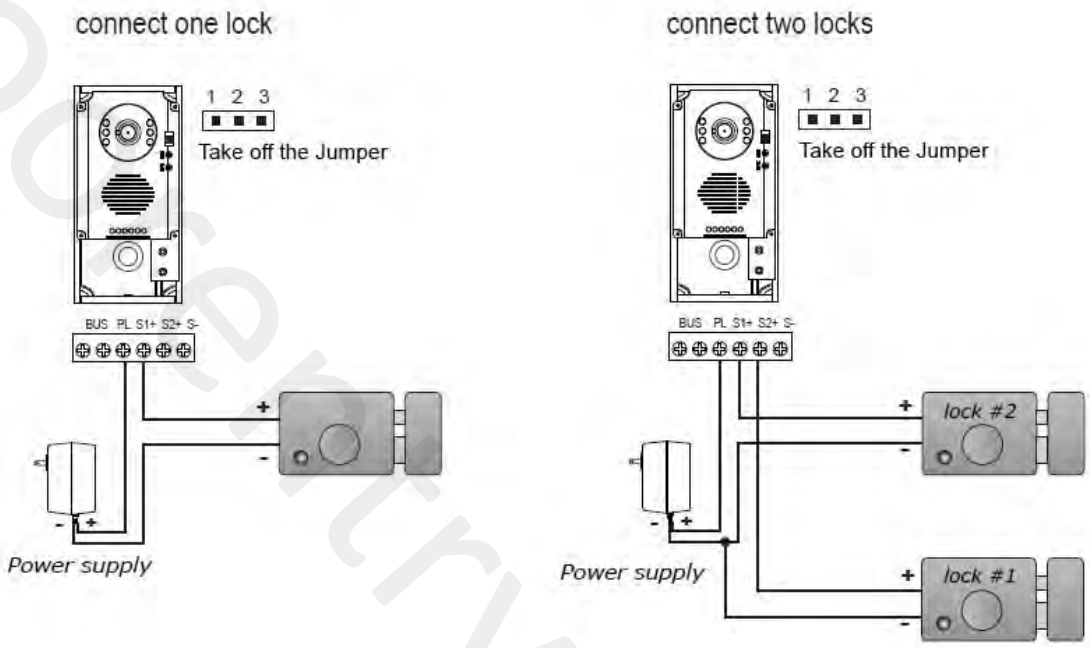
Connecting to a standard 12v dc 360ma+ lock release with additional 12v dc power supply



The examples above are for 12v dc fail secure (Power to un-lock) lock releases rated at more than 360ma with a separate 12v dc power supply

This will also work for 24v dc fail secure (Power to un-lock) lock releases using a 24v dc power supply

This works for all door panels: 591, 592, 596kp, 596id and DMR

For fail open (Power to lock) lock releases, please ensure you set the main video monitor only for Unlock Mode setting 1

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Connecting to an automated gate

N/C contact from timer relay

This example shows the automated gate controller requiring a Normally Closed contact, however, if a Normally Open contact is required then simply use the N/O connection on the timer relay board shown

Common

Normally Open

240v
AC

S- from door panel to VT

S1+ from door panel to VT

N/C contact from timer relay

To gate controller relay switch

To gate controller relay switch

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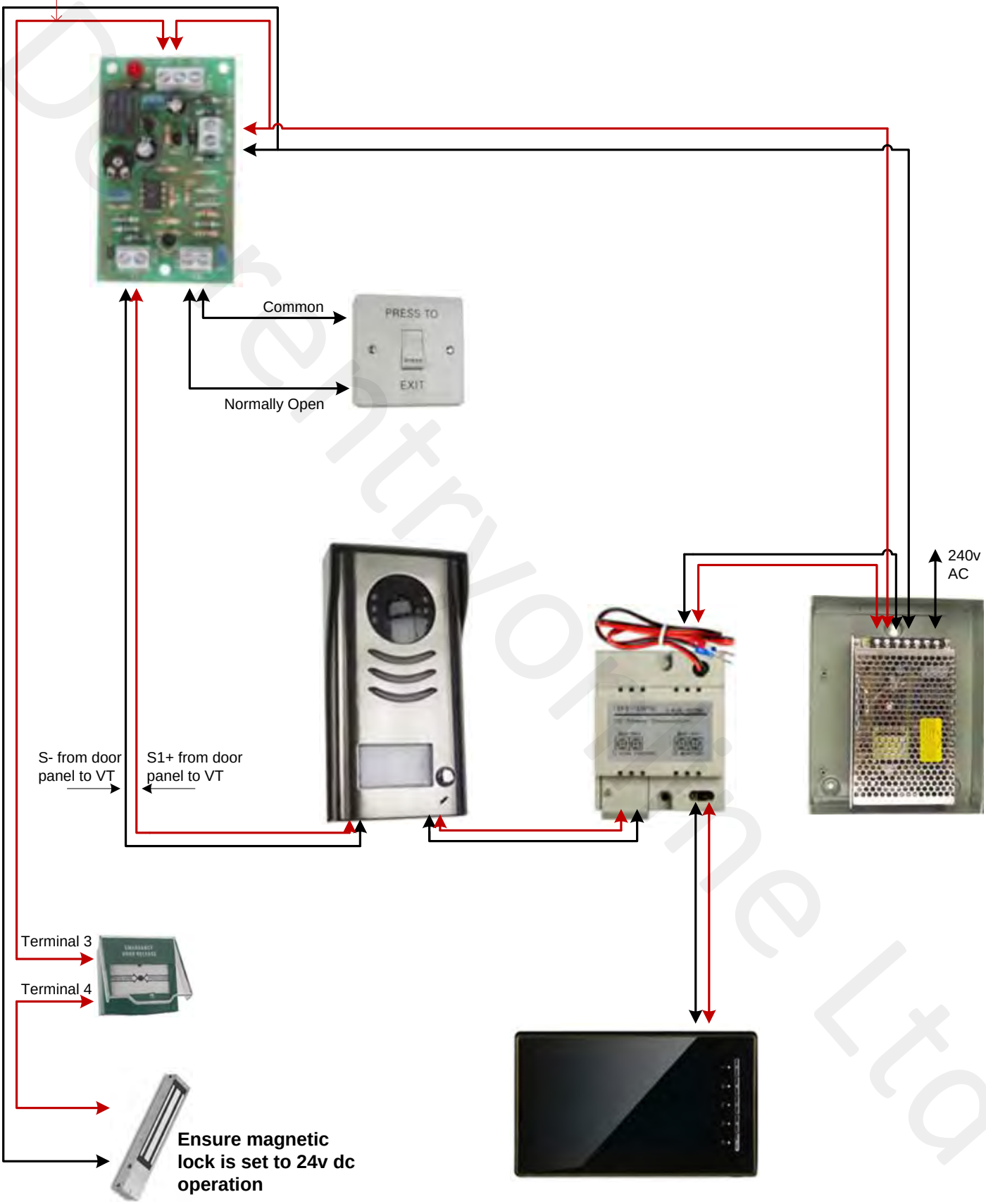
Connecting to a magnetic lock

N/C contact from timer relay



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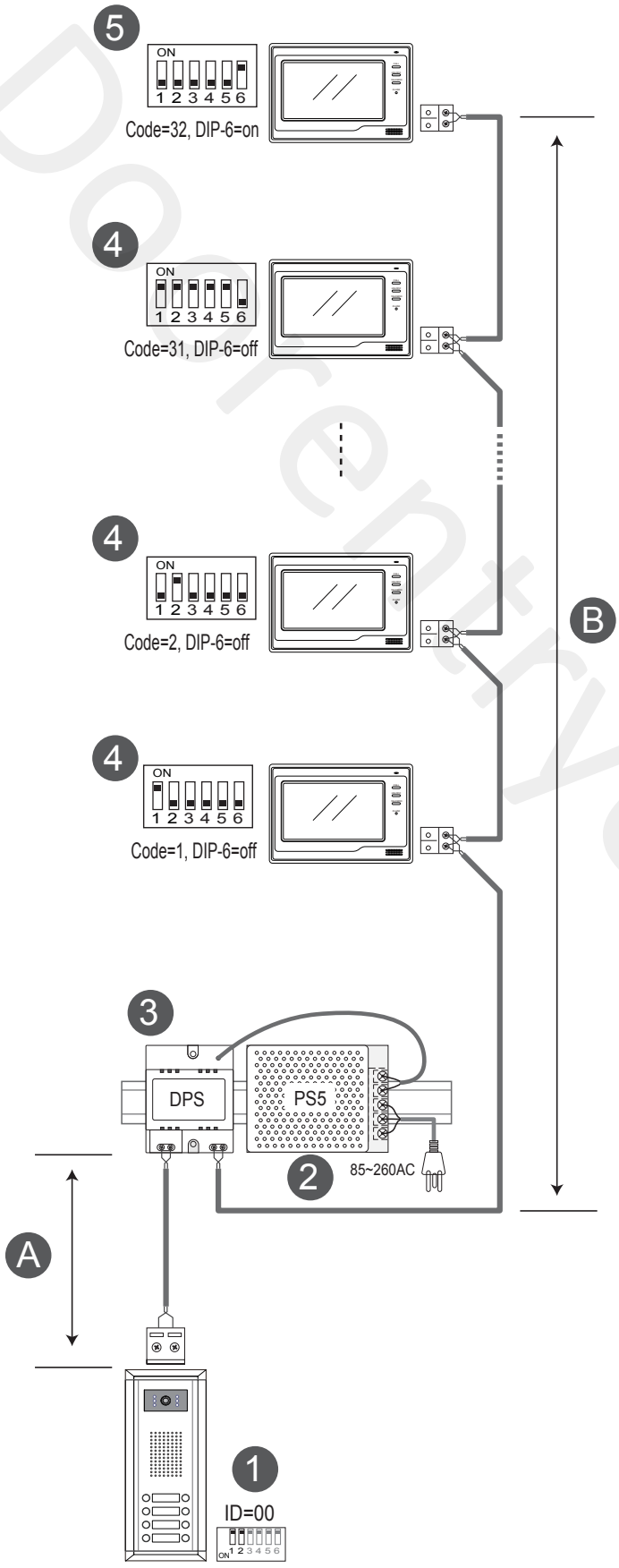
1. System Wirings and Connections

1.1. IN-OUT wiring without DBC4S distributor



[1]: Door Station, when there is only one Door Station, the DIP bit-1 and bit-2 should be set to *00*.

[2]: Power Supply(PS5), MUST be installed side by side with the DPS unit.

[3]: Power Separator, MUST be installed side by side with the PS5 unit.

[4]: Monitor, each one with a unique User Code (Max.32 Monitors), the bit-6 of the DIP should be set to *0* (off) if the Monitor is not at the end of the bus line.

[5]: Monitor, the bit-6 of the DIP should be set to *1* (on) if the Monitor is connected at the and of the bus line.

When Monitor quantity < 20

Cable Usage	A	B
Twisted cable 2x0.75 mm^2	60	60
Twisted cable 2x1 mm^2	80	80

When Monitor quantity > 20

Cable Usage	A	B
Twisted cable 2x1 mm^2	70	30
Twisted cable 2x1.5 mm^2	70	50

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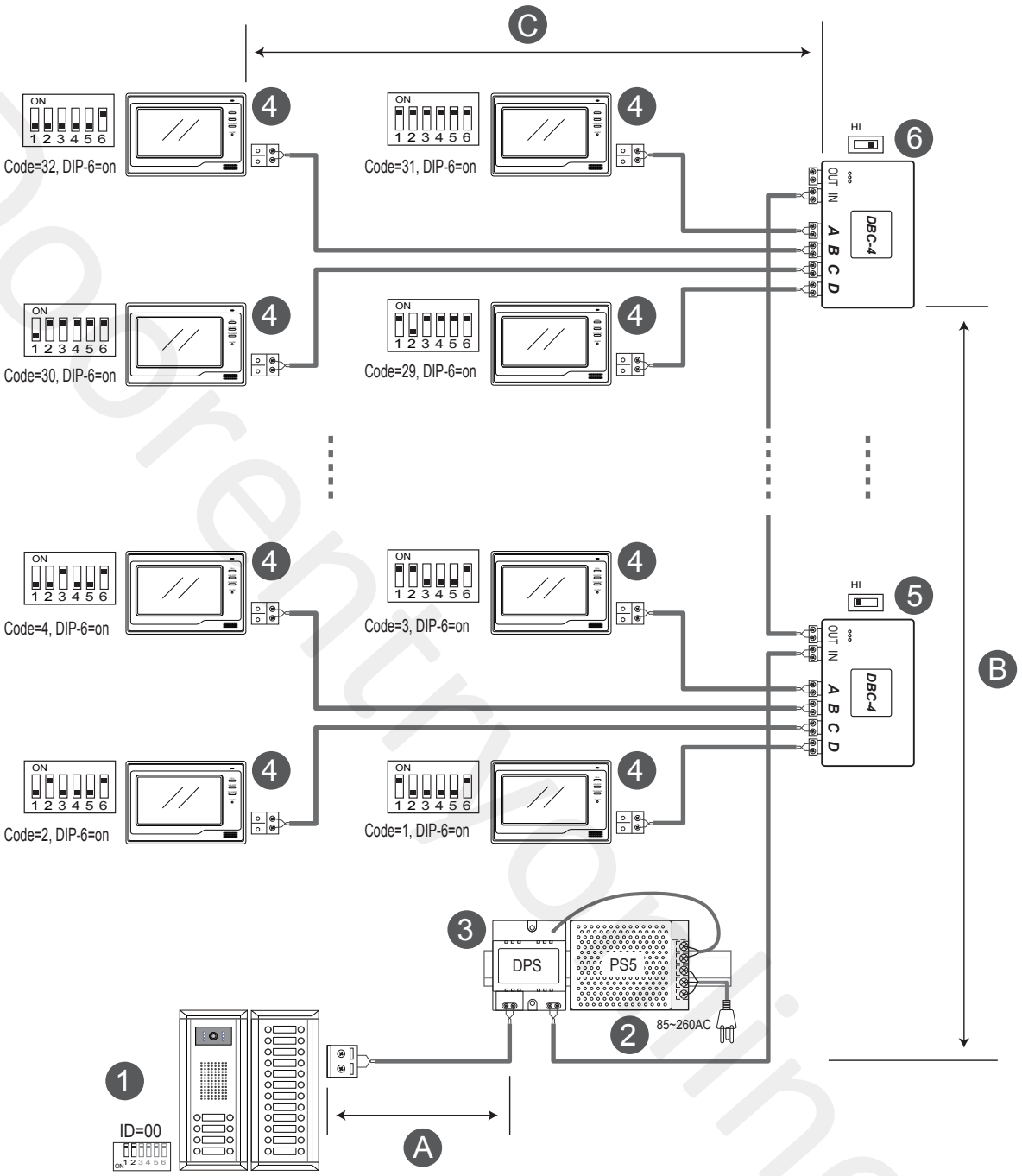
1.3. Star wiring with 4 output distributor DBC4S



[1]: Door Station, when there is only one Door Station, the DIP bit-1 and bit-2 should be set to *00*.

[2]: Power Supply(PS5), MUST be installed side by side with DPS unit.

[3]: Power Separator, MUST be installed side by side with the PS5 unit.

[4]: Monitor, each one with a unique User Code, note that all the bit-6 of the DIP should be set to *1* (on) in this case.(Max.32 Monitors)

[5]: DBC-4(4 output Branch Controller) unit, the switch of the DBC-4 should be set to *HI* except the last one which is at the end of the bus line.

[6]: DBC-4(4 output Branch Controller) unit, the switch of the DBC-4 should be set to *120* as it is at the end of the bus line.

When Monitor quantity < 20

Cable Usage	A	B	C
Twisted cable 2x0.75 mm^2	60	60	30
Twisted cable 2x1 mm^2	80	80	40

When Monitor quantity > 20

Cable Usage	A	B	C
Twisted cable 2x1 mm^2	70	30	20
Twisted cable 2x1.5 mm^2	70	50	30

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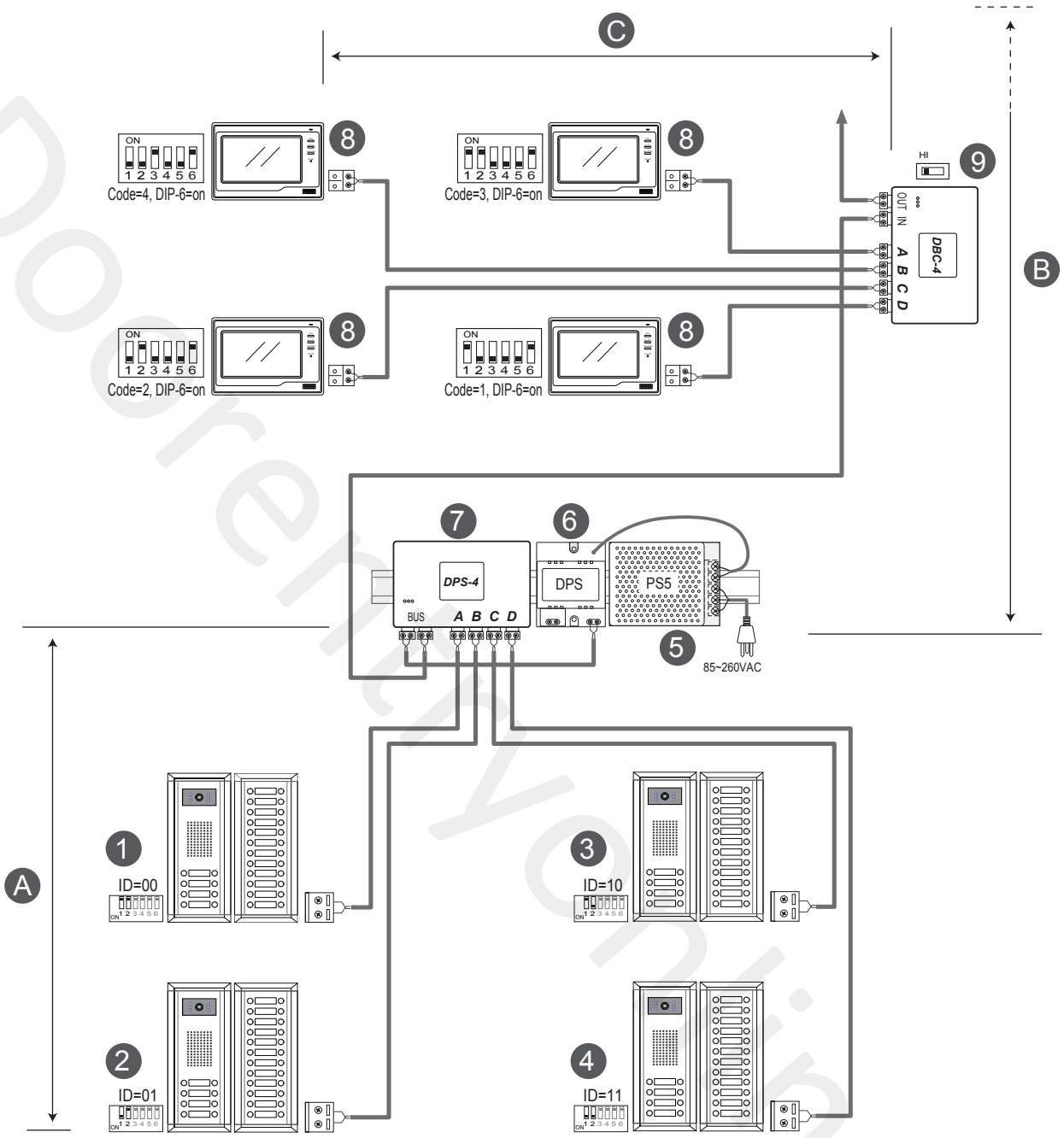
1.4. Multi Door Station wiring



[1]: The first Door Station, the DIP bit-1 and bit-2 should be set to *00*.

[2]: The 2nd Door Station, the DIP bit-1 and bit-2 should be set to *01*.

[3]: The 3rd Door Station, the DIP bit-1 and bit-2 should be set to *10*.

[4]: The 4th Door Station, the DIP bit-1 and bit-2 should be set to *11*.

[5]: Power Supply(PS5), MUST be installed side by side with DPS unit.

[6]: Power Separator, MUST be installed side by side with the PS5 unit.

[7]: DPS-4(4 input Power Separator), can connect Max. 4 Door Stations.

[8]: Monitor, each one with a unique User Code, note that all the bit-6 of the DIP should be set to *1* (on) in this case.(Max.32 Monitors)

[9]: DBC-4(4 output Branch Controller) unit, the switch of the DBC-4 should be set to *HI* except the last one which is at the end of the bus line.

When Monitor quantity < 20

Cable Usage	A	B	C
Twisted cable 2x0.75 mm^2	60	60	30
Twisted cable 2x1 mm^2	80	80	40

When Monitor quantity > 20

Cable Usage	A	B	C
Twisted cable 2x1 mm^2	70	30	20
Twisted cable 2x1.5 mm^2	70	50	30

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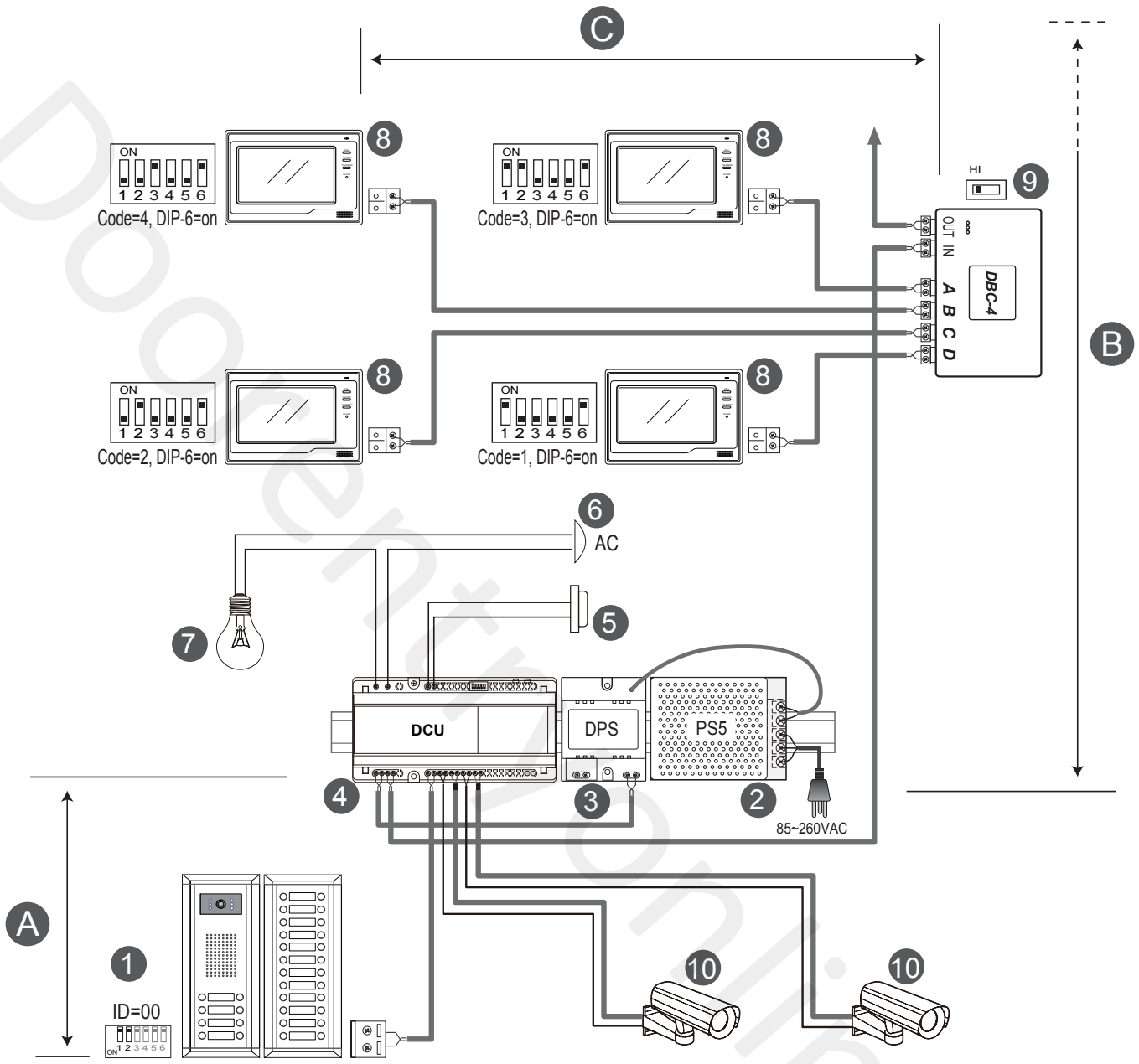
1.5. CCTV wiring with DCU



[1]: The first Door Station, the DIP bit-1 and bit-2 should be set to *00*.

[2]: Power Supply(PS5), MUST be installed side by side with DPS unit.

[3]: Power Separator, MUST be installed side by side with the PS5 unit.

[4]: DCU(CCTV Controller), can connect Max.2 CCTV cameras and lamp/lock at the same time.

[5]: Light turn on button.

[6]: AC input for the lamp.

[7]: Lamp.

[8]: Monitor, each one with a unique User Code, note that all the bit-6 of the DIP should be set to *1* (on) in this case.(Max.32 Monitors)

[9]: DBC-4(4 output Branch Controller) unit, the switch of the DBC-4 should be set to *HI* except the last one which is at the end of the bus line.

[10]: CCTV camera.

When Monitor quantity < 20

Cable Usage	A	B	C
Twisted cable 2x0.75 mm^2	60	60	30
Twisted cable 2x1 mm^2	80	80	40

When Monitor quantity > 20

Cable Usage	A	B	C
Twisted cable 2x1 mm^2	70	30	20
Twisted cable 2x1.5 mm^2	70	50	30

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