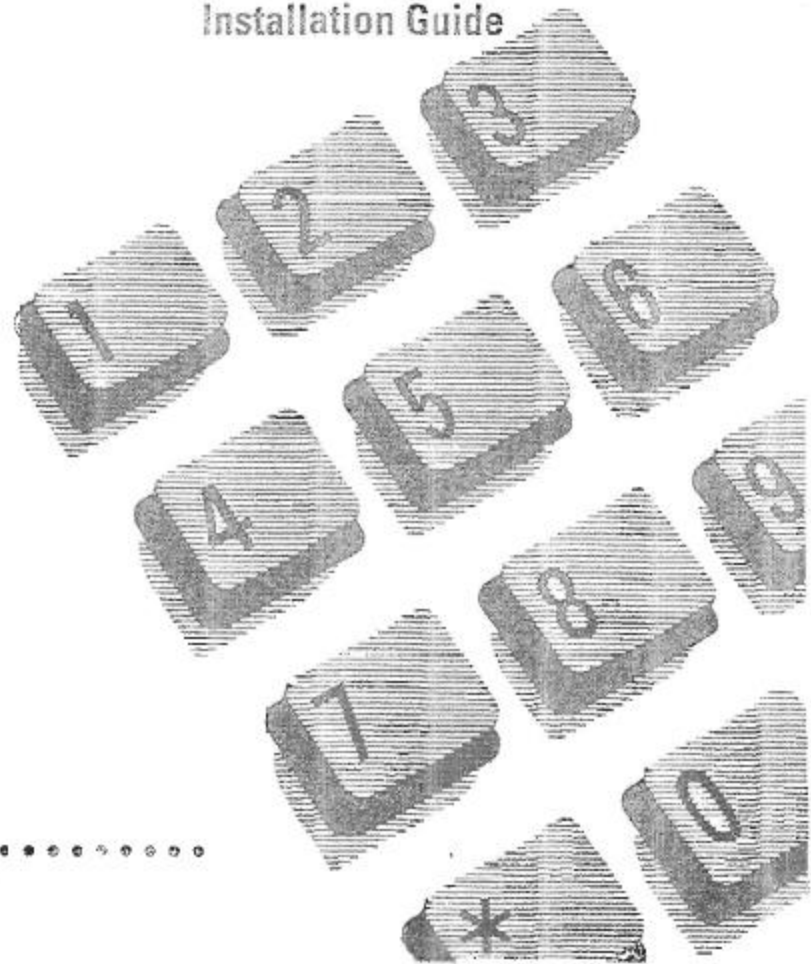


NORTEL NORSTAR



Door Opening Controller (DOC) Installation Guide



Version française incluse.
Versión española incluida



Installing the DOC

Installation Steps

There are three steps to follow when installing a DOC:

Step 1: Set the DOC dip-switch

Part A

Ensure that the upper four positions of the DOC dip-switch correspond with the opening digit or display button defined in Doorphone Programming. Refer to Figure 1 to determine dip-switch values.

Note: Both the Doorphone and DOC are preset to 6.

For the steps to determine the display button or digit and to ensure that the Doorphone is programmed for DOC operation, refer to the **Doorphone Installation Guide, Step 4**.

Installing the DOC cont'd

Installation Steps (cont'd)

Part B

Ensure that the lower four positions of the DOC dip-switch correspond with the desired relay activation time.

Note: The DOC is preset to 3 seconds.

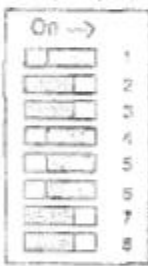
Switch Positions	1-4	5-8
X=Closed (On)	Code Select	Relay Timing
0=Open (Off)	0000 NA	0000 1/4 sec
	000X 1	000X 1
	00X0 2	00X0 2
	00XX 3	00XX 3 default
	0X00 4	0X00 4
	0X0X 5	0X0X 5
	0XXX 6 default	0XXX 6
	X000 7	X000 7
	X00X 8	X00X 8
	X0XX 9	X0XX 9
	X0X0 0	X0X0 10
	X0XX *	X0XX 11
	XX00 #	XX00 12
	XXXX Call Answered	XXXX 13
	XXXX Call Disconnect	XXXX 14
	XXXX Call Button	XXXX 15

Figure 1 - Dip-switch

Installing the DOC cont'd

Installation Steps (cont'd)

Step 2: Mount the DOC

To mount a DOC:

1. Fasten the DOC to a wall using screws.

Step 3: Wire the DOC(s)

The DOC is intended to be powered from a Class 2 power supply, the same source as used for strike operation. The input range is 12 – 24 V AC or DC.

To wire the DOC(s):

1. Connect the power supply to terminals 1 and 2. Refer to Figure 2.
2. The DOC relay switches power to the door release mechanism. One side of the power supply connects directly, while the other connects through the relay contacts.

Connect the first door strike lead to terminal 2 and install a wire connecting terminal 1 to the relay common (terminal 5).

For normally de-energized door strikes, connect the second strike lead to the normally open relay contact (terminal 4).

For normally energized devices such as magnetic locks, connect the second lead to the normally closed contact (terminal 6).

For dry contact control applications such as electric gates or garage doors, no power supply is available to operate the DOC. In this case, use any 12 to 24 volt source capable of supplying 60 mA.

Installing the DOC cont'd

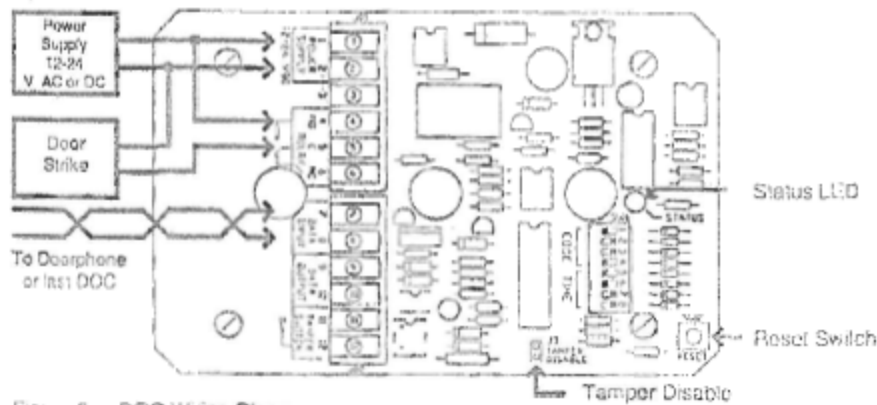


Figure 2 - DOC Wiring Diagram

3. Connect the DOC(s) to the Doorphone.

Connect the DOC "data input" terminals (7 & 8) to the Doorphone DOC terminals through up to 2600 feet of 24 AWG twisted pair wiring.

If the wiring between the Doorphone and the DOC is routed outside a building such as aerial or buried cable then protection devices must be installed at each end of the exposed cable for safety and protection. Northern Telecom recommends the ITW LINX MP1A-90-33 secondary protector.

Note: Multiple DOCs may be connected to a Doorphone in a daisy-chain to provide control of several doors or gates.

To connect multiple DOCs, connect the data input terminals (7 & 8) to the data output terminals (9 & 10) of the previous DOC.

A DOC can also be used to provide dry contact closure when the call button of the Doorphone is pressed and the dip-switch is set to XXXX.

Testing/Tamper Detect Feature

Testing

In idle mode the DOC flashes twice per second, indicating proper operation and communication with the Doorphone.

To test the DOC, place an intercom call to the appropriate Doorphone and push the digit on the dialpad which corresponds to the dip-switch code on the DOC.

The DOC should activate for the designated time, accompanied by a steady LED light.

Tamper Detect Feature

For high security applications, a normally closed security switch can detect the removal of a Doorphone from its mount and automatically disable the DOC.

The tamper switch contacts must be continuously connected by either the internal tamper shunt or external wiring. Any break in the circuit will disable the DOC until it is powered down and up or reset using the RESET switch on the PC board.

These terminals can be left disconnected if no tamper detect function is required and the internal tamper shunt is not removed.

The LED light will flash in bursts of three to indicate that the DOC is disabled as a result of a break in the tamper circuit.

