Proximity Reader P60-W02

# Information to the User

	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference receibed including interence that may cause undesired operation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: ■　Reorient or relocate the receiving antenna. ■　Increase the separation between the equipment and receiver. ■　Connect the equipment into an outlet on a circuit different from that to which the receiver in connected. ■　Consult the dealer or an experienced radio/TV technician for help.
	Caution Changes or modifications not expressly approved by the Party responsible for compliance could void the user's authority to operate the equipment.
	Usage in Accordance with the Intended Purpose The described proximity reader is used for reading data of proximity identification media. Any other use is not permitted.
	Interflex is not to be held responsible for damages caused by the use of the proximity reader. Interflex reserves the right to make modifications without prior notification in the interest of technical progress.

Installation

⇨ Install the proximity reader next to the locking device in an unsecured area and connect the connecting cable either directly or via extension cable[2] to the access manager controlling and monitoring this access point.

Installation Variants
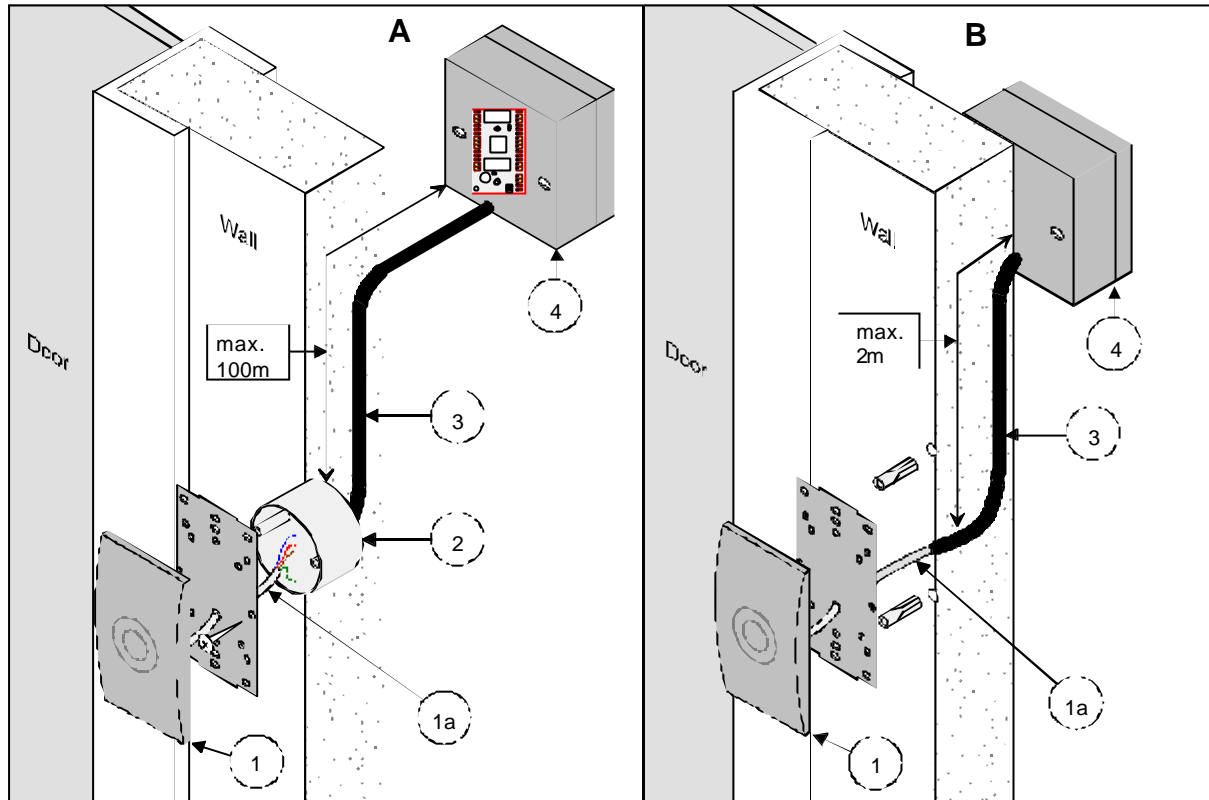
A	Connection via extension cable	B	Direct connection
1	Proximity reader	1	Proximity reader
1a	Connecting cable	1a	Connecting cable fed in an empty tube
2	Junction box[1] with 10-pin terminal strip	3	Empty tube, max. 2 m
3	10-wire, shielded cable[2] in empty tube	4	Access manager or junction box
4	Access manager, e.g. IF 0-610		

⇨ An at least 10-wire, shielded data cable[2] may be used to extend the available connecting cable to a lenth of 100 meters provided that GND and +5 VDC are connected with two conductors each.

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[1] The junction box may also be installed in the secured area.
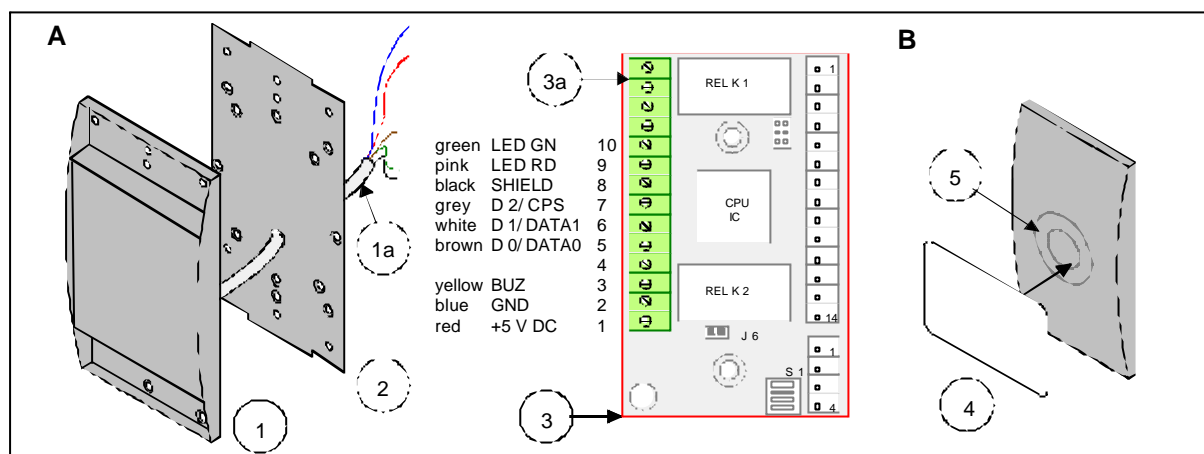[2] Cable type: e.g. J-Y (ST) Y 5x2x0,6mm or 10 conductor shielded cable AWG 22.

Assembly

smooth front side structure

smooth front side structure

119/ 4.69

77/ 3.01

1,100/ 43.31
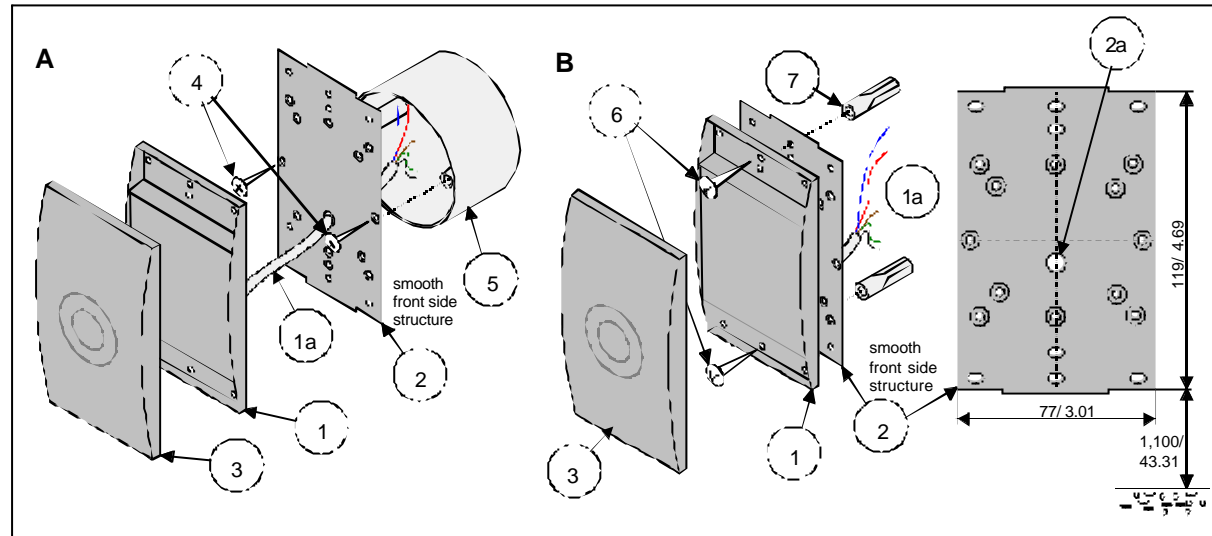
A	Mounting into single/double gang back boxes	B	Fastening with dowels
1	Reader housing with reader board	1	Reader housing with reader board
1a	Connecting cable	1a	Connecting cable
2	Mounting plate (smooth side at the front)	2	Mounting plate (smooth side at the front)
2a	Cutout for connecting cable	2a	Cutout for connecting cable
3	Housing cover	3	Housing cover
4	3x 25 countersunk bolts	6	Cylinder head screws
5	Single/double-gang back box	7	Dowel, e.g. S6

⟹ The following must be considered when the reader is installed:

1. The potted electronics permits an installation not only in dry but also in wet environment.
2. The minimum distance to other systems equipped with proximity readers is limited to 0.3 meters/11.8".
3. If mounted on metal, a minimal impact on the read range performance must be taken into account.
4. To prevent distortion when fastening the screws and allow the housing cover safely lock into place, the mounting surface behind the proximity reader must be smooth and even.
5. Besides common wall mounting, the chamfering in the mounting plate permit mounting into single/double-gang back boxes, e.g. into a DIN back box.
6. Only use countersunk bolts which are flush with the chamfering, for fastening the mounting plate (see Figure A).
7. The cylinder-head screws enclosed in delivery can be used to mount the reader housing and the mounting plate to the wall (Figure B).
8. Once the function test is completed, the cover is placed on the reader housing, pushed to the back until the retaining pins and the mounting plate lock into place.
9. The mounting plate enclosed in delivery may also be used as boring pattern.

Connection

A	Proximity reader connection	B	Presentation of an identification medium
1	Reader housing	4	Credential in check card format
1a	Connecting cable	5	LED:display
2	Mounting plate		
3	Access manager, e.g. IF 0-610		
3a	Terminal strip in IF-0-610		

⟹ Connect the connecting cable (Figure A, 1a) to the terminal strip marked for this purpose in the access manager (Figure A, 3). The colors of the conductors as well as the relevant signals are shown in the above figure. Further information on the connection can be found in the "Instructions on Installation and Connection" which is enclosed in delivery of the respective access manager.

How to Correctly Present the Identification Medium

⟹ In order to permit a correct data capture, the identification medium must be presented within the specified range and in parallel to the proximity reader until the red or green LED lights up and a short "beep" can be heard (see figure).

LEDs

⟹ The LEDs signalize:
- Blue LED light => operational readiness of the reader
- Green LED light => a door opening
- Green LED light and a short "Beep" => positive booking response followed by a door opening
- Red LED light and "Beeps" repeated at intervals => a negative booking response

Access Manager - Configuration

Access managers are only able to read the transmitted data if the reader is defined as of HID/P type.

⟹ The reader type setting can be checked via the OC menu[1] $ cfg (see also "read1" of the table below). Define the reader type via the OC menu $ termini –x (x = hardware address of the terminal) if another reader type than HID/P is indicated.

$ cfg

No	B	A	HA	TNo	type	HWU	SWU	display	keys	read1	read 2	In/ Out
x	x	x	x	x	IF 610	2.01	x	-	-	**Prox**	-	-

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[1] The OC menus are part of the IF 1xxx software and can be invoked via the service interface of these systems.

Technical Data	Details
Power supply: - Low-voltage: - Power consumption:	Via the access manager 5 VDC, +/- 5 % Max. 100 mA
Credential reader	
- Type:	Proxif proximity reader
- Frequency:	125 kHz
- Interface:	Wiegand / MagCard / TTL asynchron
- Read range between identification medium and reader	The actual read range performance depends on the range of action of the antenna embedded in the identification medium. It may range up to 80 mm/ 3.15".
General Data	
- Ambient temperature:	-20° C to +55° C/ -4° F to 131 ° F
- Protection category:	IP 66, potted electronics
- EMC:	FCC-Mark. This device complies with Part 15 of the FCC Rules CE-Mark. Complies with the R&TTE Directive valid in the EU countries. (EN 300 330- SRD and ETS 300 683)
- Weight:	Approx. 180 g
- Installation type:	Wall mounting by means of screws
Housing:	
- Material:	Polycarbonate
. Color:	Light gray
- Dimensions (LxWxD in mm/ inch):	118 x 77 x 23/ 4,65x 3,4x 0,91
- Connecting cable:	8-wire cable
Display:	LEDs, green/ red and blue, beeper