PROJIT

DOCUMENTACIÓN TÉCNICA

Ficha técnica Datalogic XRF410N

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Documento fuente	XRF410N Installation Manual
Páginas incluidas	1, 2, 3
Fuente oficial	https://cdn.datalogic.com/Download?iddwnfile=25793

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APPLICATION NOTE

XRF410N™

Installation

Reference Software Versions:

1.4.0 and later

History

Issue	Date	Paragraph	Change
Rev. 0	February 13, 2015		First Release
Rev. A	March 24, 2015		Added baud rate note
Rev. B	June 9, 2015		Added Electrical connection diagrams and power supply table.
Rev. C	April 2016		Added CAB-MLP-05 wiring info
Rev. D	April, 2017		Changed power supply table.
Rev. E	March, 2018		Changed bracket information (BK-90-040)

INTRODUCTION

XRF410N (named for its e**X**tended **R**eading **F**ield), is a product developed mainly for T&L applications with the goal of guaranteeing an extended horizontal field of view in order to fully cover the entire width of a conveyor.

It is made up of two Matrix 410N™ model readers (optically pre-configured and not modifiable). The readers are mounted onto a metal plate at a pre-defined distance from each other (pitch), which depends on the optical model. They are also connected together electrically by the ID-NET™ network.

The system therefore is pre-assembled and pre-configured to provide simpler installation.

Each M410N-XRF reader (including spare part readers) can only be used within an ID-NET network in which at least one other reader is present. **They cannot be used as Stand Alone devices**.

The various XRF410N models do not include CBX connection boxes or CBX connecting cables so it is necessary to refer to the accessories list tables for the required material.

In terms of product performance there are two models:

- **BP (Base Performance)** for low cost applications and medium line speed. These models have High Power Super Narrow Angle illuminators and use Image Cropping (to avoid the presence of multiple packs inside the acquired image simultaneously).

- **HP (High Performance)** for high line speed applications. These models have Ultra High Power illuminators and use full-frame images in PackTrack™ mode.

In addition, each of these is further divided into different optical models which are optimized for different code resolutions, reading distances and field of view.

The following table summarizes the main characteristics of the various models:

Model XRF410N	1D Code Resolution	Pitch [mm]	Lighting System	Reading Distance [mm]	DOF [mm]	Focus Dist. [mm]	PPI	FOV min. [mm]	Overlap min between readers [mm]	Others
BP- B0x Medium Res	0.38mm (15mils)	235	LT-10	1270-1670	400	1570	91	590	120	Cropped Image: 1600x780
BP- B1x High Res	0.33mm (13mils)	175	LT-10	1050-1450	400	1300	111	470	120	Cropped Image 1600x780
HP- H0x Medium Res	0.38mm (15mils)	235	LT-20	1270-1670	400	1570	91	590	120	Full image & Packtrack
HP- H1x High Res	0.33mm (13mils)	175	LT-20	1050-1450	400	1300	111	470	120	Full image & Packtrack
HP- H2x Very High Res	0.25mm (10mils)	155	LT-20	860-1110	250	960	147	395	85	Full image & Packtrack

Table 1 – Main Characteristics

In order to create multi-side or multi-point reading stations, the product line further includes the following models:

- **XRF410N-xx0 MASTER**: made up of two readers: one Master and one Slave 1. The Master must be connected directly to a **CBX** connection box through a **CAB-DS-xx-S** cable. The Slave is already connected to a QL100 which is provided with a CBL-1490 ID-NET network terminator. The other end of the QL100 must be connected to the CBX using a **CBL-1480-xx** cable to complete the ID-NET network.

- **XRF410N-xx1 EXTENSION**: made up of two Slave readers each connected to a QL100. These models must be connected to a **Master XRF410N** through the ID-NET network using a **CBL-1480-xx** cable to complete the ID-NET network.

  One or more Extension XRF410N models can be chained together to extend the ID-NET network. When using the Extension models, the CBL-1490 ID-NET network terminator (present on the QL100 of the Slave reader on the Master XRF410N) must be transferred to the last slave on the last Extension XRF410N in the network.