› Contact Readers
› Instinctive Readers
› Distance Readers
› Software Tools
› Other
• STAR-Modem™
• P51
• F30
• DLS2000/2000-M
• DLD1000
• DPS8000/DPS9000
• DLO1000
• DL3

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Features

- Non-contact code scanning
- High reading speed
- Good depth of field
- AC coupling provides high ambient light rejection
- Good vibration and shock resistance
- Reads codes in any direction

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Applications

- OEM applications, such as:
  - Time and attendance terminals
  - Access control terminals
  - Automatic machinery
- ON LINE verifiers for bar code printers
- Object identification and automatic sorting

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General Description

The F30 is a compact fixed position bar code reader that is easy to install with high mechanical resistance. It is available in the following versions:

- 0.15 mm (6 mils) high resolution, with red or infrared emission. These models are ideal for high density codes generated with good quality printing technologies (thermal, photographic, offset, etc.)
- 0.38 mm (15 mils) low resolution, with red or infrared emission. Low density codes with poor quality printing techniques (dot matrix, ink jet printers, etc.) can be read.

The red light source (660 mm) is particularly used for reading thermal printed codes or coloured codes. Rather, the infrared light source (930 mm) can be used in applications where the code is hidden by black transparent infrared film that prevents label duplication. Code direction in respect to the reader axis can either be with the bars perpendicular (F30x-xxx), or with the bars parallel (F30x-xxxR). This option, along with small dimensions, renders the F30 ideal for OEM applications. Datalogic supplies a wide range of F30 compatible decoders that allow connection to any external device.

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Models/Accessories

- **F30R-111**
  Red light source, parallel "picket fence" read direction, 6 mils resolution, cable without connector
- **F30R-112**
  Red light source, parallel "picket fence" read direction, 6 mils resolution, cable with DL connector
- **F30R-121**
  Red light source, parallel "picket fence" read direction, 15 mils resolution, cable without connector
- **F30R-122**
  Red light source, parallel "picket fence" read direction, 15 mils resolution, cable with DL connector
- **F30I-111**
  Infrared light source, parallel "picket fence" read direction, 6 mils resolution, cable without connector
- **F30I-112**
  Infrared light source, parallel "picket fence" read direction, 6 mils resolution, cable with DL connector
- **F30I-121**
  Infrared light source, parallel "picket fence" read direction, 15 mils resolution, cable without connector
- **F30I-122**
  Infrared light source, parallel "picket fence" read direction, 15 mils resolution, cable with DL connector
- **F30R-111R**
  Red light source, perpendicular "step ladder" read direction, 6 mils resolution, cable without connector
- **F30R-112R**
  Red light source, perpendicular "step ladder" read direction, 6 mils resolution, cable with DL connector
- **F30R-121R**
  Red light source, perpendicular "step ladder" read direction, 15 mils resolution, cable without connector
- **F30R-122R**
  Red light source, perpendicular "step ladder" read direction, 15 mils resolution, cable with DL connector
- **F30I-111R**
  Infrared light source, perpendicular "step ladder" read direction, 6 mils resolution, cable without connector
- **F30I-112R**
  Infrared light source, perpendicular "step ladder" read direction, 6 mils resolution, cable with DL connector
- **F30I-121R**
  Infrared light source, perpendicular "step ladder" read direction, 15 mils resolution, cable without connector
- **F30I-122R**
  Infrared light source, perpendicular "step ladder" read direction, 15 mils resolution, cable with DL connector

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Specifications

- **POWER SUPPLY**
  5 Vdc
- **POWER RIPPLE**
  150 mVpp max.
- **POWER CONSUMPTION**
  20 mA
- **READING DISTANCE**
  8 to 12 mm (0.3 to 0.47 in.)
- **SCAN RATE**

7 cm/sec (2.7 in/sec) min. 200 cm/sec (78.7 in/sec) max.

- **OUTPUT**
  Open collector NPN transistor. Open collector is ON when the reader is on white background.
  With no card present the output transistor is always ON
- **RISE AND FALL TIME (RL=5 KOhm)**
  1.5 ms
- **DIMENSIONS**
  62 x 25 x 15.5 mm (2.44 x 0.89 x 0.61 in.)
- **WEIGHT**
  100 g (3.53 oz.)
- **CASE MATERIAL**
  Aluminium
- **CABLE LENGTH**
  2 m (6.6 ft.)
- **AMBIENT LIGHT CONDITIONS**
  4000 lux (light angle 20°)
- **OPERATING TEMPERATURE**
  -10 to 60 °C (14 to 140 °F)
- **STORAGE TEMPERATURE**
  -20 to 80 °C (-4 to 176 °F)
- **HUMIDITY**
  90% non condensing
- **VIBRATION RESISTANCE**
  5 G at 5 to 400 Hz, 2 hours sine wave, sweep time 1 octave/min
  x, y, z
- **SHOCK RESISTANCE**
  20 G, 11 ms 3 shock on the 6 planes half sine
- **PROTECTION CLASS**
  IP50

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