



Features

- User management
- Password protection
- Backup & Restore function
- Coordinate transformation
- Flexible result conjunction

general data

resolution	752 × 480 px
sensor type	1/3" CMOS, monochrome
illumination	integrated, LED infrared (860 nm)
LED class	free group 1 (risk free, EN 62471:2008)
high-resolution mode	max. 50 inspections per second
high-speed mode (Binning 2 × 2)	max. 100 inspections per second
lens	10 mm
object distance min.	50 mm
number of jobs (products)	≤ 255
features per job	32
defect image memory	32
signal processing	Baumer FEX® 4.0

electrical data

voltage supply range +Vs	18 ... 30 V DC
power consumption	typical 5 W ($I_{max} = 1$ A at 24 V)
inputs	8 ... 30 V
outputs	PNP 100 mA
digital outputs	trigger job selection external teach-in encoders (CH-A, CH-B) 500 kHz
digital inputs	Pass / Fail 1-5 Flash Sync Alarm Camera Ready Output Enable
initial setup	Ethernet (10BASE-T / 100BASE-TX)
process interface	TCP UDP (Ethernet)
visualization	web interface

mechanical data

width	53 mm
height	99,5 mm
depth	38 mm
material	housing: aluminum cover glass: PMMA, integrated daylight filter (780 nm)
weight	≤ 250 g

environmental conditions

operating temperature	+5 ... 50 °C
humidity	0 ... 90 % (non-condensing)
protection class	IP 67
vibration load	IEC 60068-2-6 IEC 60068-2-64
mechanical shock resistance	EN 60068-2-27

code types

barcode	2/5 Industrial 2/5 Interleaved Codabar Code 39 Code 93 Code 128 PharmaCode EAN 8 EAN 13 UPC-A UPC-E GS1 DataBar GS1 128
matrix code	DataMatrix (ECC 200) GS1-DataMatrix QR-Code PDF417

code types

font many font styles (recommended: sans serif, proportional)
Dot Matrix
characters: A-Z a-z 0-9 + - . : / ()

feature checks

part location part location on contours
part location on edges
part location on circle
part location on text line

geometry distance
circle
angle
count edges
point position

feature comparison count contour points
contour comparison
brightness
contrast
area size
count areas
pattern comparison

identification barcode
matrix code
text

electrical connection M12 / 12-pin (on device)



1: PWR (+18-30 V DC)	7: OUT3
2: Ground	8: IN3
3: IN1 (Trigger)	9: OUT4
4: OUT1	10: IN4
5: IN2	11: IN5
6: OUT2	12: OUT5

Ethernet connection M12 / 4-pin (on device)



1: TD+	7: TD-
2: RD+	8: RD-

dimension drawing

