



Actual size

ML4.1 Series Sub-Miniature Style Sensors

- Space-saving 14mm (9/16") wide housing
- Dual selectable outputs, PNP or NPN
- Light on/dark on mode determined by wiring
- LED indication of switch status and signal strength



Diffused Mode with Background Suppression

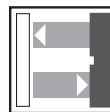
See pages 332-333

Features:

- Ignores background machine surfaces
- Consistent detection of light and dark objects

Sensing Ranges: 20mm, 40mm, 60mm, 80mm

Output: Push-pull



Diffused Mode

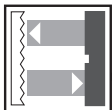
See page 333

Features:

- Visible red alignment aid
- Adjustable sensing range

Sensing Range: 400mm

Output: Push-pull



Retro-Reflective Mode

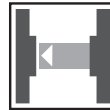
See page 334

Features:

- Reliable detection of even the shiniest materials
- Single lens allows for close placement of reflector

Sensing Range: 400mm

Output: Push-pull



Thru-Beam Mode

See page 334

Features:

- Test input on transmitter for added control
- Detects 9mm (3/8") diameter targets

Sensing Range: 2.5m

Output: Push-pull

Photoelectric Sensors



Diffused Mode with Background Suppression

Specifications	7-20mm	10-40mm	10-60mm	10-80mm
SENSING RANGE	7-20mm	10-40mm	10-60mm	10-80mm
SENSITIVITY ADJUSTMENT	No	No	No	No
BACKGROUND SUPPRESSION	from 25mm	from 50mm	from 80mm	from 100mm
MODEL NUMBER(S)	ML4.1-8-H-20-RT/95/110	ML4.1-8-H-40-RT/95/110	ML4.1-8-H-60-RT/95/110	—
	ML4.1-8-H-20-IR/95/110	ML4.1-8-H-40-IR/95/110	ML4.1-8-H-60-IR/95/110	ML4.1-8-H-80-IR/95/110
OUTPUT: Transistor, Normally Open or Normally Closed	Push-pull	Push-pull	Push-pull	Push-pull
SUPPLY VOLTAGE	10-30VDC	10-30VDC	10-30VDC	10-30VDC
LIGHT SPOT DIAMETER	3mm	4mm	6mm (-RT)/5mm (-IR)	6mm
LIGHT BEAM ANGLE	≈8°	≈6°	≈6°	≈6°
LIGHT SOURCE	-RT	Visible red LED 635nm	Visible red LED 635nm	Visible red LED 635nm
	-IR	Infrared LED 880nm	Infrared LED 880nm	Infrared LED 880nm
AMBIENT LIGHT RESISTANCE	≤100,000 lux	≤100,000 lux	≤100,000 lux	≤100,000 lux
ELECTRICAL CONNECTION	Quick disconnect type V31	Quick disconnect type V31	Quick disconnect type V31	Quick disconnect type V31
ADDITIONAL DATA	<i>See pages 335-336</i>			

Sensing Characteristics

