



Properties

- Rectangular full-size housing
- Diffuse distance measurement
- Pulse Ranging Technology (PRT)
- Medium range
- Discrete and analog outputs with IO-Link
- Laser red light

Your Benefit

- Parallel measuring paths possible. No mutual interference.
- Safe measurement under difficult conditions, e.g. mist or dust
- Immunity to extraneous light
- Surface independent measurement, practically no black-white difference

Further Products

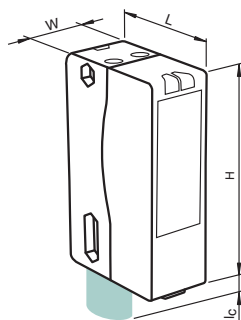
In this series, we offer additionally:

VDM28-8-L1-IO/73c/110/122

Tech. spec. like VDM28-8-L-IO/73c/110/122 but:
Laser class: 1

VDM28-8-L/73c/136

Tech. spec. like VDM28-8-L-IO/73c/136 but:
Interface: no IO-Link interface



Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Measurement range	0.2 ... 8 m
Reference target	Kodak white (90%)
Light source	laser diode typ. service life 85,000 h at Ta = +25 °C
Light type	modulated visible red light
Laser class	2
Wave length	660 nm
Measuring method	Pulse Ranging Technology (PRT)
Diameter of the light spot	< 10 mm at a distance of 8 m at 20 °C
Absolute accuracy	± 25 mm
Repeat accuracy	< 5 mm
Operating voltage	10 ... 30 V DC / when operating in IO-Link mode: 18 ... 30 V
No-load supply current	≤ 70 mA / 24 V DC
Interface	
Interface type	IO-Link
Switching current	max. 100 mA
Switching frequency	50 Hz
Ambient temperature	-30 ... 50 °C (-22 ... 122 °F)
Material	
Housing	Plastic ABS
Optical face	Plastic pane
Protection degree	IP65

Model Number

		VDM28-8-L-IO/110/115b/122	VDM28-8-L-IO/115b/136	VDM28-8-L-IO/73c/110/122	VDM28-8-L-IO/73c/136
Signal output	green = preferred type Push-pull output, short-circuit protected, reverse polarity protected 2 Push-pull outputs, short-circuit protected, reverse polarity protection	●	●	●	●
Measurement output	1 analog output 4 ... 20 mA, short-circuit/overload protected	●	●	●	●
Connection	300 mm fixed cable with M12 x 1, 4-pin connector connector M12 x 1, 4-pin	●	●	●	●

Approvals and Certificates

Protection class	II	●	●	●	●
UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure	●	●	●	●

Dimensions

Length L [mm]	54,3
Width W [mm]	25,8
Height H [mm]	88
Connector area I _c [mm]	5 14

Accessories

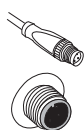
This and more accessories can be found in chapter 10

See pages from 972 ... for cordsets

See pages 1068 ... for mounting aids

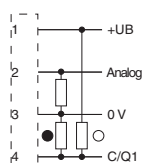
IO-Link-Master01-USB	IO-Link Master
PACTware 4.X	Software
IODD Interpreter	Software for the integration of IODDs in a frame application (e. g. PACTware)
VDM28-IO-Link DTM	Device DTM for communication with VDM28-IO-Link sensors

Electrical Connection



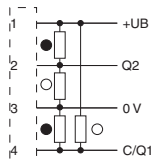
VDM28-8-L-IO/110/115b/122
VDM28-8-L-IO/73c/110/122
VDM28-8-L1-IO/73c/110/122

Option /110/122



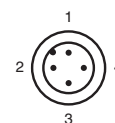
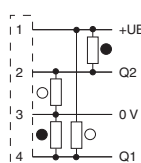
VDM28-8-L-IO/115b/136
VDM28-8-L-IO/73c/136

Option /136



VDM28-8-L/73c/136

Option /73c/136



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

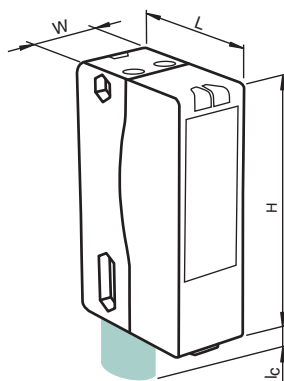


Properties

- Rectangular full-size housing
- Diffuse distance measurement
- Pulse Ranging Technology (PRT)
- Medium range
- Discrete and analog outputs with IO-Link
- Laser red light

Your Benefit

- Parallel measuring paths possible. No mutual interference.
- Safe measurement under difficult conditions, e.g. mist or dust
- Immunity to extraneous light
- Surface independent measurement, practically no black-white difference



Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

Model Number	VDM28-15-L-IO/73c/110/122
Measurement range	0.2 ... 15 m
Reference target	Kodak white (90%)
Light source	laser diode typ. service life 85,000 h at Ta = +25 °C
Light type	modulated visible red light
Laser class	2
Wave length	660 nm
Measuring method	Pulse Ranging Technology (PRT)
Diameter of the light spot	< 15 mm at a distance of 15 m at 20 °C
Absolute accuracy	± 25 mm
Repeat accuracy	< 5 mm
Operating voltage	10 ... 30 V DC when operating in IO-Link mode: 18 ... 30 V
No-load supply current	≤ 70 mA / 24 V DC
Interface	
Interface type	IO-Link
Signal output	Push-pull output, short-circuit protected, reverse polarity protected
Switching current	max. 100 mA
Switching frequency	50 Hz
Measurement output	1 analog output 4 ... 20 mA, short-circuit/overload protected
Ambient temperature	-30 ... 50 °C (-22 ... 122 °F)
Material	
Housing	Plastic ABS
Optical face	Plastic pane
Protection degree	IP65
Connection	connector M12 x 1, 4-pin



Approvals and Certificates

Protection class	II
UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Dimensions

Length L [mm]	54.3
Width W [mm]	25.8
Height H [mm]	88
Connector area l _c [mm]	14

Accessories

This and more accessories can be found in chapter 10

See pages from 972 ... for cordsets

See pages 1068 ... for mounting aids

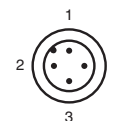
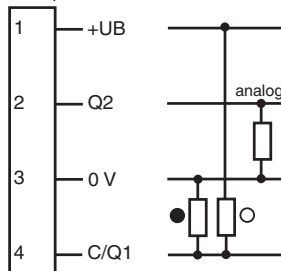
PACTware 4.X	Software
VDM28-IO-Link DTM	Device DTM for communication with VDM28-IO-Link sensors
IODD Interpreter	Software for the integration of IODDs in a frame application (e. g. PACTware)
IO-Link-Master01-USB	IO-Link Master
IO-Link-Master-USB DTM	Communication DTM for use of IO-Link-Master
OMH-05	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm
OMH-07	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm
OMH-21	Mounting bracket
OMH-22	Mounting bracket
OMH-RLK29	Mounting bracket
OMH-RLK29-HW	Mounting bracket for rear wall mounting
OMH-RL28-C	Protective cover
OMH-K01	dove tail mounting clamp
OMH-K03	dove tail mounting clamp
OMH-VDM28-01	Metal enclosure for inserting protective panes or apertures

Electrical Connection



VDM28-15-L-IO/73c/110/122

Option:



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)



Properties

- Rectangular full-size housing
- Retroreflective distance measurement
- Pulse Ranging Technology (PRT)
- Long range
- Discrete and analog outputs with IO-Link
- Laser red light

Your Benefit

- Parallel measuring paths possible. No mutual interference.
- Safe measurement under difficult conditions, e.g. mist or dust
- Immunity to extraneous light

Further Products

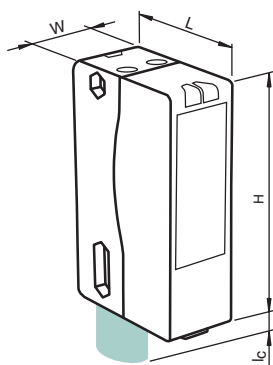
In this series, we offer additionally:

VDM28-50-R1-IO/73c/110/122

Tech. spec. like VDM28-50-R-IO/73c/110/122 but:
Laser class: 1

VDM28-50-R/73c/136

Tech. spec. like VDM28-50-R-IO/73c/136 but:
Interface: no IO-Link interface



Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Measurement range	0.2 ... 50 m
Reference target	OFR-100/100
Light source	laser diode typ. service life 85,000 h at Ta = +25 °C
Light type	modulated visible red light
Laser class	2
Wave length	660 nm
Measuring method	Pulse Ranging Technology (PRT)
Diameter of the light spot	< 50 mm at a distance of 50 m at 20 °C
Absolute accuracy	± 25 mm
Repeat accuracy	< 5 mm
Operating voltage	10 ... 30 V DC / when operating in IO-Link mode: 18 ... 30 V
No-load supply current	≤ 70 mA / 24 V DC
Interface	
Interface type	IO-Link
Switching current	max. 100 mA
Switching frequency	50 Hz
Ambient temperature	-30 ... 50 °C (-22 ... 122 °F)
Material	
Housing	Plastic ABS
Optical face	Plastic pane
Protection degree	IP65
Connection	connector M12 x 1, 4-pin



Model Number

Signal output	Push-pull output, short-circuit protected, reverse polarity protected 2 Push-pull outputs, short-circuit protected, reverse polarity protection
Measurement output	1 analog output 4 ... 20 mA, short-circuit/overload protected

VDM28-50-R-IO/73c/110/122

VDM28-50-R-IO/73c/136

Approvals and Certificates

Protection class	II
UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure

Dimensions

Length L [mm]	54,3
Width W [mm]	25,8
Height H [mm]	88
Connector area I _c [mm]	14

Accessories

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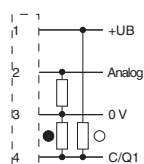
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IODD Interpreter	Software for the integration of IODDs in a frame application (e. g. PACTware)
IO-Link-Master01-USB	IO-Link Master
OMH-VDM28-01	Metal enclosure for inserting protective panes or apertures

Electrical Connection



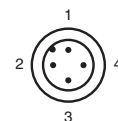
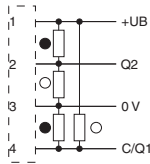
VDM28-50-R-IO/73c/110/122
VDM28-50-R1-IO/73c/110/122

Option /110/122



VDM28-50-R-IO/73c/136
VDM28-50-R-IO/73c/136

Option /136



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)