

High-Performance Proximity Sensor DH / DH2 Series

3-wire standard / connector / relay type
2-wire standard / connector / relay type



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Fast Delivery Standard Models



Most products are in stock. Upon receiving your order, we will arrange prompt shipment to minimize your downtime-related costs and losses.



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Exceptional resistance to oil mist environments

IP67 protection rating ensures stable and precise detection even in humid, dusty, and complex environments.



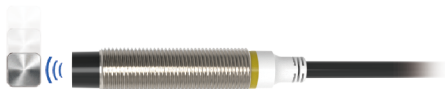
Excellent locking strength

The sensor housing is robust and durable, and high-quality hardware accessories prevent loosening due to vibration or impact.



High-quality ICs ensures superior performance

Features high-quality ICs and highly stable circuits with exceptional interference resistance.



- Standard length, suitable for most applications.
- Made of stainless steel or high-quality copper, durable and robust.
- Special requirements such as detection distance can be customized.
- Multiple installation specifications available.
- NO/NC and NPN/PNP output modes available.
- Replacement of imports, simple and convenient.

More Features

DH/DH-E/DH-C 3-wire Product List

Specifications (detection distance)

● Each product offers multiple detection distances to choose from. For example, L1 represents a detection distance of 1 mm, and L6 represents a detection distance of 6 mm.

Ordering Example

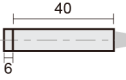
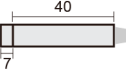
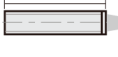
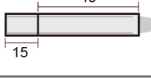
Main unit model
DH-004

-

Detection distance
L1.2

⇒

Ordering model
DH-004-L1.2

Type		Dimensions (mm)		Detection distance list (mm)		Output type	Main unit model	
							NO	NC
3-wire standard type	ø4	Shielded		1.2		NPN	DH-004	DH-004C
						PNP	DH-004P	DH-004CP
	M5×0.5	Shielded		1.2		NPN	DH-M005	DH-M005C
						PNP	DH-M005P	DH-M005CP
	M8×P1	Shielded		2		NPN	DH-M008	DH-M008C
						PNP	DH-M008P	DH-M008CP
		Non-shielded		4		NPN	DH-U008	DH-U008C
						PNP	DH-U008P	DH-U008CP
	M12×P1	Shielded		4		NPN	DH-M012	DH-M012C
						PNP	DH-M012P	DH-M012CP
		Non-shielded		8		NPN	DH-U012	DH-U012C
						PNP	DH-U012P	DH-U012CP
	M18×P1	Shielded		8		NPN	DH-M018	DH-M018C
						PNP	DH-M018P	DH-M018CP
		Non-shielded		16		NPN	DH-U018	DH-U018C
						PNP	DH-U018P	DH-U018CP
	M30×P1.5	Shielded		15		NPN	DH-M030	DH-M030C
						PNP	DH-M030P	DH-M030CP
		Non-shielded		30		NPN	DH-U030	DH-U030C
						PNP	DH-U030P	DH-U030CP

*1 Customized production is available for special requirements.

Proximity Sensor

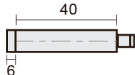
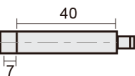
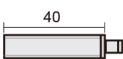
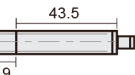
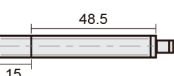
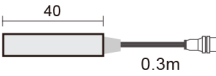
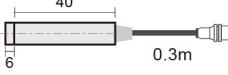
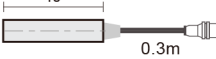
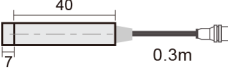
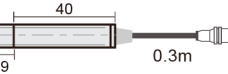
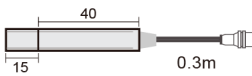
DH/DH2	
DT	
DL	
DT-Q	
DL-Q	
DV	
DP-T	
DP-C	
DP-W	
Fiber Optic Sensors	
Photoelectric Sensors	
Color Sensors	
Laser Sensors	
Proximity Sensors	
Precision Contact Sensors	
Area Sensors/ Safety Light Curtains	
Laser Scanners	
Digital Contact Sensors	
Laser Displacement Sensors	
Laser Micrometers	
Confocal Displacement Sensors	
Barcode Readers	
AI Vision Sensors	
RFID	
Infrared Temperature Sensors	
Pressure Sensors	
Flow Sensors	
Magnetic Sensors	
Ultrasonic Sensors	
Magnetic Scales	
Static Eliminators	



DH/DH2	Proximity Sensor
DT	
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Ultrasonic Sensors	
Magnetic Scales	
Static Eliminators	

DH/DH2

High-Performance Proximity Sensor

Type		Dimensions (mm)		Detection distance list (mm)		Output type	Main unit model	
							NO	NC
3-wire connector type	M8×P1	Shielded		2		NPN	DH-EM008	DH-EM008C
						PNP	DH-EM008P	DH-EM008CP
		Non-shielded		4		NPN	DH-EU008	DH-EU008C
						PNP	DH-EU008P	DH-EU008CP
	M12×P1	Shielded		4		NPN	DH-EM012	DH-EM012C
						PNP	DH-EM012P	DH-EM012CP
		Non-shielded		8		NPN	DH-EU012	DH-EU012C
						PNP	DH-EU012P	DH-EU012CP
	M18×P1	Shielded		8		NPN	DH-EM018	DH-EM018C
						PNP	DH-EM018P	DH-EM018CP
		Non-shielded		16		NPN	DH-EU018	DH-EU018C
						PNP	DH-EU018P	DH-EU018CP
	M30×P1.5	Shielded		15		NPN	DH-EM030	DH-EM030C
						PNP	DH-EM030P	DH-EM030CP
		Non-shielded		30		NPN	DH-EU030	DH-EU030C
						PNP	DH-EU030P	DH-EU030CP
3-wire relay type	M8×P1	Shielded		2		NPN	DH-CM008	DH-CM008C
						PNP	DH-CM008P	DH-CM008CP
		Non-shielded		4		NPN	DH-CU008	DH-CU008C
						PNP	DH-CU008P	DH-CU008CP
	M12×P1	Shielded		4		NPN	DH-CM012	DH-CM012C
						PNP	DH-CM012P	DH-CM012CP
		Non-shielded		8		NPN	DH-CU012	DH-CU012C
						PNP	DH-CU012P	DH-CU012CP
	M18×P1	Shielded		8		NPN	DH-CM018	DH-CM018C
						PNP	DH-CM018P	DH-CM018CP
		Non-shielded		16		NPN	DH-CU018	DH-CU018C
						PNP	DH-CU018P	DH-CU018CP
	M30×P1.5	Shielded		15		NPN	DH-CM030	DH-CM030C
						PNP	DH-CM030P	DH-CM030CP
		Non-shielded		30		NPN	DH-CU030	DH-CU030C
						PNP	DH-CU030P	DH-CU030CP

¹⁾ Customized production is available for special requirements.



DH2/DH2-E/DH2-C 2-wire Product List

Specifications (detection distance)

● Each product offers multiple detection distances to choose from. For example, L1 represents a detection distance of 1 mm, and L6 represents a detection distance of 6 mm.

 Ordering Example

Main unit model

DH2-M008

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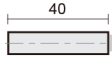
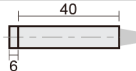
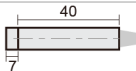
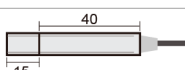
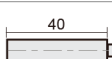
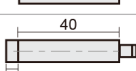
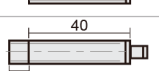
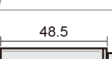
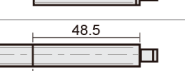
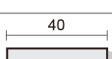
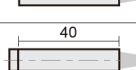
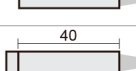
Detection distance

L2

➡

Ordering model

DH2-M008-L2

Type		Dimensions (mm)		Detection distance list (mm)	Main unit model	
					NO	NC
2-wire standard type	M8×P1	Shielded	 40 ø3.8	2	DH2-M008	DH2-M008C
		Non-shielded	 40 ø3.8 6	4	DH2-U008	DH2-U008C
	M12×P1	Shielded	 40 ø4.8	4	DH2-M012	DH2-M012C
		Non-shielded	 40 ø4.8 7	8	DH2-U012	DH2-U012C
	M18×P1	Shielded	 40 ø4.8	8	DH2-M018	DH2-M018C
		Non-shielded	 40 ø4.8 9	16	DH2-U018	DH2-U018C
	M30×P1.5	Shielded	 40 ø4.8	15	DH2-M030	DH2-M030C
		Non-shielded	 40 ø4.8 15	30	DH2-U030	DH2-U030C
2-wire connector type	M8×P1	Shielded	 40 ø3.8	2	DH2-EM008	DH2-EM008C
		Non-shielded	 40 ø3.8 6	4	DH2-EU008	DH2-EU008C
	M12×P1	Shielded	 40 ø4.8	4	DH2-EM012	DH2-EM012C
		Non-shielded	 40 ø4.8 7	8	DH2-EU012	DH2-EU012C
	M18×P1	Shielded	 40 ø4.8	8	DH2-EM018	DH2-EM018C
		Non-shielded	 40 ø4.8 9	16	DH2-EU018	DH2-EU018C
	M30×P1.5	Shielded	 48.5 ø4.8	15	DH2-EM030	DH2-EM030C
		Non-shielded	 48.5 ø4.8 15	30	DH2-EU030	DH2-EU030C
2-wire relay type	M8×P1	Shielded	 40 ø3.8 0.3m	2	DH2-CM008	DH2-CM008C
		Non-shielded	 40 ø3.8 0.3m 6	4	DH2-CU008	DH2-CU008C
	M12×P1	Shielded	 40 ø4.8 0.3m	4	DH2-CM012	DH2-CM012C
		Non-shielded	 40 ø4.8 0.3m 7	8	DH2-CU012	DH2-CU012C
	M18×P1	Shielded	 40 ø4.8 0.3m	8	DH2-CM018	DH2-CM018C
		Non-shielded	 40 ø4.8 0.3m 9	16	DH2-CU018	DH2-CU018C
	M30×P1.5	Shielded	 40 ø4.8 0.3m	15	DH2-CM030	DH2-CM030C
		Non-shielded	 40 ø4.8 0.3m 15	30	DH2-CU030	DH2-CU030C

*1 Customized production is available for special requirements.

Proximity Sensor

- DH/DH2
- DT

DL

DT-Q

DL-Q

DV

DP-T

DP-C

DP-W
- Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Proximity Sensors

Precision Contact Sensors

Area Sensors/
Safety Light Curtains

Laser Scanners

Digital Contact Sensors

Laser Displacement
Sensors

Laser Micrometers

Confocal Displacement
Sensors

Barcode Readers

AI Vision Sensors

RFID

Infrared Temperature
Sensors

Pressure Sensors

Flow Sensors

Magnetic Sensors

Ultrasonic Sensors

Magnetic Scales

Static Eliminators



DH series 3-wire standard type

Main unit model	DH-00 4□□	DH-M0 05□□	DH-M0 08□□	DH-M0 12□□	DH-M0 18□□	DH-M0 30□□	DH-U0 06□□	DH-U0 08□□	DH-U0 12□□	DH-U0 18□□	DH-U0 30□□
Type	Shielded						Non-shielded				
Detection distance	1.2 mm ±10%		2 mm ±10%	4 mm ±10%	8 mm ±10%	15 mm ±10%	4 mm ±10%	4 mm ±10%	8 mm ±10%	16 mm ±10%	30 mm ±10%
Set distance	0–0.84 mm		0–1.6 mm	0–3.2 mm	0–6.4 mm	0–12 mm	0–3.2 mm	0–3.2 mm	0–6.4 mm	0–12.8 mm	0–24 mm
Standard test object	5×5×1 (mm)		8×8×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	45×45×1 (mm)	12×12×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	48×48×1 (mm)	90×90×1 (mm)
Response frequency	2 KHz		1.5 KHz	1 KHz	0.5 KHz	0.25 KHz	1 KHz	1 KHz	0.8 KHz	0.4 KHz	0.1 KHz
Hysteresis range	1% to 10% of the detection distance		1% to 15% of the detection distance				1% to 15% of the detection distance				
Repeatability	Less than 3% of the detection distance		Less than 5% of the detection distance				Less than 5% of the detection distance				
Power voltage	12 to 24 VDC		10 to 30 VDC				10 to 30 VDC				
Current consumption	< 10 mA		< 10 mA	< 15 mA		< 22 mA	< 10 mA	< 10 mA	< 15 mA		< 22 mA
Output	-		NPN output NPN open-collector transistor Load current: <100 mA Residual voltage: <2 V (when load current is 100 mA and wire length is 2 m) <200 mA <2.5 V (when load current is 200 mA and wire length is 2 m)				NPN output NPN open-collector transistor Load current: <100 mA Residual voltage: <2 V (when load current is 100 mA and wire length is 2 m) <200 mA <2.5 V (when load current is 200 mA and wire length is 2 m)				
Indicator	Yellow indicator (lights when output ON)										
Circuit protection	Reverse polarity protection, output short-circuit protection, surge absorption										
Ambient temperature	Operating: -25 to +70 °C Storage: -25 to +70 °C										
Ambient humidity	Operating: 35 to 95% RH Storage: 35 to 95% RH										
Withstanding voltage	500 VAC, 50/60 Hz, 1 minute between charging unit and housing		1000 VAC, 50/60 Hz, 1 minute between charging unit and housing				1000 VAC, 50/60 Hz, 1 minute between charging unit and housing				
Insulation resistance	> 20 MΩ (DC 500 V) between charging unit and housing		> 50 MΩ (DC 500 V) between charging unit and housing				> 50 MΩ (DC 500 V) between charging unit and housing				
Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions										
Shock resistance	500 m/s², 3 times in each of the X, Y, and Z directions										
Protective construction	IEC IP67										
Connection type	Standard lead length 2 m										
Material	Housing: Nickel-plated brass; Front plug: PBT; Rear plug: PC										
Weight	-		Approx. 50 g	Approx. 95 g	Approx. 115 g	Approx. 190 g	Approx. 45 g	Approx. 50 g	Approx. 95 g	Approx. 115 g	Approx. 190 g

DH-E Series 3-wire connector type

Main unit model	DH-EM0 08□□	DH-EM0 12□□	DH-EM0 18□□	DH-EM0 30□□	DH-EU0 08□□	DH-EU0 12□□	DH-EU0 18□□	DH-EU0 30□□
Type	Shielded				Non-shielded			
Detection distance	2 mm ±10%	4 mm ±10%	8 mm ±10%	15 mm ±10%	4 mm ±10%	8 mm ±10%	16 mm ±10%	30 mm ±10%
Set distance	0–1.6 mm	0–3.2 mm	0–6.4 mm	0–12 mm	0–3.2 mm	0–6.4 mm	0–12.8 mm	0–24 mm
Standard test object	8×8×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	45×45×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	48×48×1 (mm)	90×90×1 (mm)
Response frequency	1.5 KHz	1 KHz	0.5 KHz	0.25 KHz	1 KHz	0.8 KHz	0.4 KHz	0.1 KHz
Hysteresis range	1% to 15% of the detection distance							
Repeatability	Less than 5% of the detection distance							
Power voltage	10 to 30 VDC							
Current consumption	< 10 mA	< 15 mA	< 22 mA		< 10 mA	< 15 mA		< 22 mA
Output	NPN output NPN open-collector transistor Load current: <100 mA Residual voltage: <2 V (when load current is 100 mA and wire length is 2 m) <200 mA <2.5 V (when load current is 200 mA and wire length is 2 m)							
Indicator	Yellow indicator (lights when output ON)							
Circuit protection	Reverse polarity protection, output short-circuit protection, surge absorption							
Ambient temperature	Operating: -25 to +70 °C Storage: -25 to +70 °C							
Ambient humidity	Operating: 35 to 95% RH Storage: 35 to 95% RH							
Withstanding voltage	1000 VAC, 50/60 Hz, 1 minute between charging unit and housing							
Insulation resistance	> 50 MΩ (DC 500 V) between charging unit and housing							
Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions							
Shock resistance	500 m/s ² , 3 times in each of the X, Y, and Z directions							
Protective construction	IEC IP67							
Connection type	M8-3pin connector	M12-4pin connector			M8-3pin connector	M12-4pin connector		
Material	Housing: Nickel-plated brass (except SN08 housing: stainless steel), Front plug: PBT; Rear plug: PC							
Weight	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g



Specifications

DH-C Series 3-wire relay type

Main unit model	DH-CM 008□□	DH-CM 012□□	DH-CM 018□□	DH-CM 030□□	DH-CU 008□□	DH-CU 012□□	DH-CU 018□□	DH-CU 030□□
Type	Shielded				Non-shielded			
Detection distance	2 mm ±10%	4 mm ±10%	8 mm ±10%	15 mm ±10%	4 mm ±10%	8 mm ±10%	16 mm ±10%	30 mm ±10%
Set distance	0–1.2 mm	0–1.6 mm	0–4 mm	0–8 mm	0–1.6 mm	0–3.2 mm	0–6.4 mm	0–12 mm
Standard test object	8×8×1 (mm)	12×12×1 (mm)	18×18×1 (mm)	30×30×1 (mm)	8×8×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	45×45×1 (mm)
Response frequency	2 KHz	1.5 KHz	1 KHz	0.5 KHz	1 KHz	0.8 KHz	0.4 KHz	0.1 KHz
Hysteresis range	1% to 15% of the detection distance							
Repeatability	Less than 5% of the detection distance							
Power voltage	10 to 30 VDC							
Output method	NO/NC							
Load current	< 100 mA							
Residual voltage	< 5 V							
Indicator	Yellow indicator (lights when output ON)							
Circuit protection	Reverse polarity protection, output short-circuit protection, surge absorption							
Ambient temperature	Operating: -25 to +70 °C Storage: -25 to +70 °C							
Ambient humidity	Operating: 35 to 95% RH Storage: 35 to 95% RH							
Withstanding voltage	1000 VAC, 50/60 Hz, 1 minute between charging unit and housing							
Insulation resistance	> 50 MΩ (DC 500 V) between charging unit and housing							
Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions							
Shock resistance	500 m/s², 3 times in each of the X, Y, and Z directions							
Protective construction	IEC IP67							
Connection type	M8-3pin connector	M12-4pin connector			M8-3pin connector	M12-4pin connector		
Material	Housing: Nickel-plated brass; Front plug: PBT; Rear plug: PC							
Weight	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g

DH2 Series 2-wire standard type

Main unit model	DH2-M008□□	DH2-M012□□	DH2-M018□□	DH2-M030□□	DH2-U008□□	DH2-U012□□	DH2-U018□□	DH2-U030□□
Type	Shielded				Non-shielded			
Detection distance	2 mm ±10%	4 mm ±10%	8 mm ±10%	15 mm ±10%	4 mm ±10%	8 mm ±10%	16 mm ±10%	30 mm ±10%
Set distance	0–1.2 mm	0–1.6 mm	0–4 mm	0–8 mm	0–1.6 mm	0–3.2 mm	0–6.4 mm	0–12 mm
Standard test object	8×8×1 (mm)	12×12×1 (mm)	18×18×1 (mm)	30×30×1 (mm)	8×8×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	45×45×1 (mm)
Response frequency	2 KHz	1.5 KHz	1 KHz	0.5 KHz	1 KHz	0.8 KHz	0.4 KHz	0.1 KHz
Hysteresis range	1% to 15% of the detection distance							
Repeatability	Less than 5% of the detection distance							
Power voltage	10 to 30 VDC							
Output method	NO/NC							
Load current	< 100 mA							
Residual voltage	< 5 V							
Indicator	Yellow indicator (lights when output ON)							
Circuit protection	Reverse polarity protection, output short-circuit protection, surge absorption							
Ambient temperature	Operating: -25 to +70 °C Storage: -25 to +70 °C							
Ambient humidity	Operating: 35 to 95% RH Storage: 35 to 95% RH							
Withstanding voltage	1000 VAC, 50/60 Hz, 1 minute between charging unit and housing							
Insulation resistance	> 50 MΩ (DC 500 V) between charging unit and housing							
Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions							
Shock resistance	500 m/s², 3 times in each of the X, Y, and Z directions							
Protective construction	IEC IP67							
Connection type	Standard lead length 2 m							
Material	Housing: Nickel-plated brass; Front plug: PBT; Rear plug: PC							
Weight	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g

Proximity Sensor

DH/DH2

DT

DL

DT-Q

DL-Q

DV

DP-T

DP-C

DP-W

Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Proximity Sensors

Precision Contact Sensors

Area Sensors/
Safety Light Curtains

Laser Scanners

Digital Contact Sensors

Laser Displacement
Sensors

Laser Micrometers

Confocal Displacement
Sensors

Barcode Readers

AI Vision Sensors

RFID

Infrared Temperature
Sensors

Pressure Sensors

Flow Sensors

Magnetic Sensors

Ultrasonic Sensors

Magnetic Scales

Static Eliminators



DH/DH2

DT

DL

DT-Q

DL-Q

DV

DP-T

DP-C

DP-W

Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Proximity Sensors

Precision Contact Sensors

Area Sensors/
Safety Light Curtains

Laser Scanners

Digital Contact Sensors

Laser Displacemen
Sensors

Laser Micrometers

Confocal Displacement
Sensors

Barcode Readers

AI Vision Sensors

RFID

Infrared Temperature
Sensors

Pressure Sensors

Flow Sensors

Magnetic Sensors

Ultrasonic Sensors

Magnetic Scales

Static Eliminators

Proximity Sensor

DH/DH2

High-Performance Proximity Sensor

Specifications

DH2-E Series 2-wire connector type

Main unit model	DH2-EM 008□□	DH2-EM 012□□	DH2-EM 018□□	DH2-EM 030□□	DH2-EU 008□□	DH2-EU 012□□	DH2-EU 018□□	DH2-EU 030□□
Type	Shielded				Non-shielded			
Detection distance	2 mm ±10%	4 mm ±10%	8 mm ±10%	15 mm ±10%	4 mm ±10%	8 mm ±10%	16 mm ±10%	30 mm ±10%
Set distance	0–1.2 mm	0–1.6 mm	0–4 mm	0–8 mm	0–1.6 mm	0–3.2 mm	0–6.4 mm	0–12 mm
Standard test object	8×8×1 (mm)	12×12×1 (mm)	18×18×1 (mm)	30×30×1 (mm)	8×8×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	45×45×1 (mm)
Response frequency	2 KHz	1.5 KHz	1 KHz	0.5 KHz	1 KHz	0.8 KHz	0.4 KHz	0.1 KHz
Hysteresis range	1% to 15% of the detection distance							
Repeatability	Less than 5% of the detection distance							
Power voltage	10 to 30 VDC							
Output method	NO/NC							
Load current	< 100 mA							
Residual voltage	< 5 V							
Indicator	Yellow indicator (lights when output ON)							
Circuit protection	Reverse polarity protection, output short-circuit protection, surge absorption							
Ambient temperature	Operating: -25 to +70 °C Storage: -25 to +70 °C							
Ambient humidity	Operating: 35 to 95% RH Storage: 35 to 95% RH							
Withstanding voltage	1000 VAC, 50/60 Hz, 1 minute between charging unit and housing							
Insulation resistance	> 50 MΩ (DC 500 V) between charging unit and housing							
Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions							
Shock resistance	500 m/s², 3 times in each of the X, Y, and Z directions							
Protective construction	IEC IP67							
Connection type	M8-3pin connector	M12-4pin connector			M8-3pin connector	M12-4pin connector		
Material	Housing: Nickel-plated brass; Front plug: PBT; Rear plug: PC							
Weight	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g

DH2-C Series 2-wire relay type

Main unit model	DH2-CM 008□□	DH2-CM 012□□	DH2-CM 018□□	DH2-CM 030□□	DH2-CU 008□□	DH2-CU 012□□	DH2-CU 018□□	DH2-CU 030□□
Type	Shielded				Non-shielded			
Detection distance	2 mm ±10%	4 mm ±10%	8 mm ±10%	15 mm ±10%	4 mm ±10%	8 mm ±10%	16 mm ±10%	30 mm ±10%
Set distance	0–1.2 mm	0–1.6 mm	0–4 mm	0–8 mm	0–1.6 mm	0–3.2 mm	0–6.4 mm	0–12 mm
Standard test object	8×8×1 (mm)	12×12×1 (mm)	18×18×1 (mm)	30×30×1 (mm)	8×8×1 (mm)	12×12×1 (mm)	24×24×1 (mm)	45×45×1 (mm)
Response frequency	2 KHz	1.5 KHz	1 KHz	0.5 KHz	1 KHz	0.8 KHz	0.4 KHz	0.1 KHz
Hysteresis range	1% to 15% of the detection distance							
Repeatability	Less than 5% of the detection distance							
Power voltage	10 to 30 VDC							
Output method	NO/NC							
Load current	< 100 mA							
Residual voltage	< 5 V							
Indicator	Yellow indicator (lights when output ON)							
Circuit protection	Reverse polarity protection, output short-circuit protection, surge absorption							
Ambient temperature	Operating: -25 to +70 °C Storage: -25 to +70 °C							
Ambient humidity	Operating: 35 to 95% RH Storage: 35 to 95% RH							
Withstanding voltage	1000 VAC, 50/60 Hz, 1 minute between charging unit and housing							
Insulation resistance	> 50 MΩ (DC 500 V) between charging unit and housing							
Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions							
Shock resistance	500 m/s², 3 times in each of the X, Y, and Z directions							
Protective construction	IEC IP67							
Connection type	M8-3pin connector	M12-4pin connector			M8-3pin connector	M12-4pin connector		
Cable length	0.3 m							
Material	Housing: Nickel-plated brass; Front plug: PBT; Rear plug: PC							
Weight	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g	Approx. 20 g	Approx. 30 g	Approx. 60 g	Approx. 130 g

I/O Circuits and Connections

Lead-wire NO/NC type

