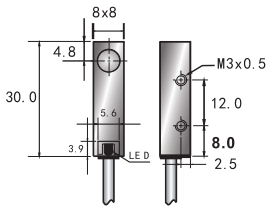
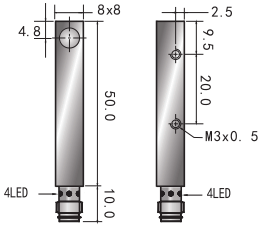
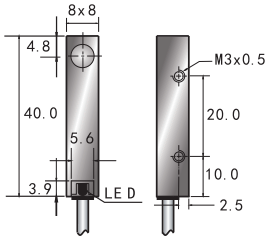
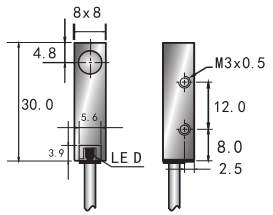
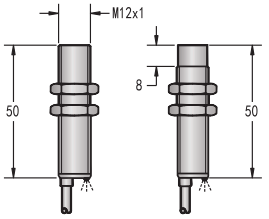
Outer diameter	Q8	Q8
● Flush ○ Non-Flush	●	●
Sensing distance Sn: mm	2mm	3mm
Housing material	Nickel-plated copper	Nickel-plated copper
● With indicator ○ Without indicator	●	●
Product image		
Technical specifications:		
Operating voltage	10-30VDC	10-30VDC
Allowable ripple voltage	<10%	<10%
No-load current	<10mA	<10mA
Maximum load current	200mA	200mA
Leakage current	<0.01mA	<0.01mA
Voltage drop	<1.5V	<1.5V
Switching frequency	2KHZ	1KHZ
Response time	0.1ms/0.1ms	0.2ms/0.2ms
Hysteresis	<15%(Sr)	<15%(Sr)
Repeat accuracy	<1.0%(Sr)	<1.0%(Sr)
IP rating	IP67	IP67
Operating temperature	-25℃-+70℃	-25℃-+70℃
Temperature drift	<10%(Sr)	<10%(Sr)
Short-circuit protection	YES	YES
Overload current	220mA	220mA
Sensing face material	POM	POM
DC 3-wire NPN N.O.	**HS2-QS08-N01** 1	**HS3-Q08-N01-P3** 1
DC 3-wire NPN N.C.	**HS2-QS08-N02** 2	**HS3-Q08-N02-P3** 2
DC 3-wire PNP N.O.	**HS2-QS08-P01** 3	**HS3-Q08-P01-P3** 3
DC 3-wire PNP N.C.	**HS2-QS08-P02** 4	**HS3-Q08-P02-P3** 4
DC 4-wire NPN (N.O.+ N.C.)		
DC 4-wire PNP (N.O.+ N.C.)		
Dimensions (unit: mm)		
		
Cable length 2m	2. Φ3x0.15	
Weight (approximate)	3 g	3 g

Q8	Q8	M12	
●	●	●	○
3mm	3mm	2mm	4mm
Nickel-plated copper	Nickel-plated copper	Stainless steel or nickel-plated brass	
●	●	●	
			
Technical specifications:			
10-30VDC	10-30VDC	10-30VDC	
<10%	<10%	<10%	
<10mA	<10mA	<10mA	
200mA	200mA	200mA	
<0.01mA	<0.01mA	<0.01mA	
<1.5V	<2.0V	<1.5V	
1KHZ	1KHZ	2KHZ	1KHZ
0.2ms/0.2ms	0.2ms/0.2ms	0.1ms/0.1ms	0.2ms/0.2ms
<15%(Sr)	<15%(Sr)	<15%(Sr)	
<1.0%(Sr)	<1.0%(Sr)	<1.0%(Sr)	
IP67	IP67	IP67	
-25℃-+70℃	-25℃-+70℃	-25℃-+70℃	
<10%(Sr)	<10%(Sr)	<10%(Sr)	
YES	YES	YES	
220mA	220mA	220mA	
POM	POM	POM	PBT
HS3-Q08-N01 1	**HS3-QS08-N01** 1	**HS-C12-N01** 1	**HS-C12-N11**
HS3-Q08-N02 2	**HS3-QS08-N02** 2	**HS-C12-N02** 2	**HS-C12-N12**
HS3-Q08-P01 3	**HS3-QS08-P01** 3	**HS-C12-P01** 3	**HS-C12-P11**
HS3-Q08-P02 4	**HS3-QS08-P02** 4	**HS-C12-P02** 4	**HS-C12-P12**
Dimensions (unit: mm)			
			
2. Φ3x0.15	2. Φ3x0.15	3. Φ3x0.15 or 3. Φ4x0.15	
3 g	3 g	67 g	65g