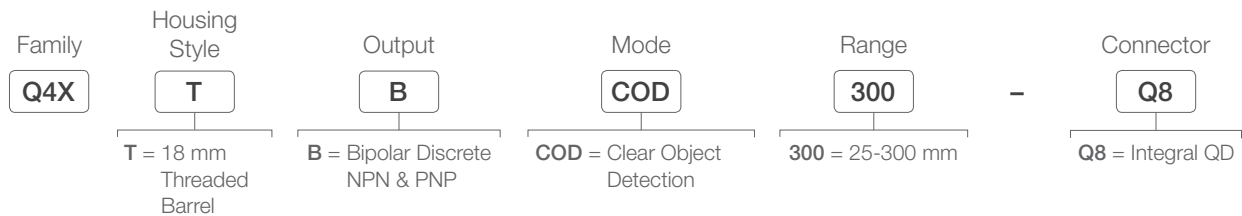# Q4X Series

Clear Object Detection Sensor

- A simple user experience from installation to setup
    - Bright spot alignment
    - Three push buttons simplify setup
    - Intuitive menus

- Four-digit display shows percent match

- FDA-grade stainless steel is suitable for IP69K washdown environments
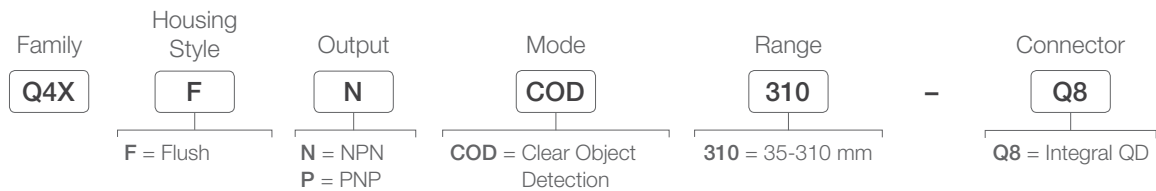
Q4X COD Threaded Barrel

Example Model Number: Q4XTBCOD300-Q8

Family	Housing Style	Output	Mode	Range		Connector
Q4X	T	B	COD	300	–	Q8
	T = 18 mm Threaded Barrel	B = Bipolar Discrete NPN & PNP	COD = Clear Object Detection	300 = 25-300 mm		Q8 = Integral QD

Q4X COD Flush Mount

Example Model Number: Q4XFNCOD310-Q8

Family	Housing Style	Output	Mode	Range		Connector
Q4X	F	N	COD	310	–	Q8
	F = Flush	N = NPN / P = PNP	COD = Clear Object Detection	310 = 35-310 mm		Q8 = Integral QD

18.0 mm 44.3 mm 57.4 mm

Q4XT.. models

18.0 mm 32.5 mm 57.4 mm

Q4XF.. models

Connection options: A model with a QD requires a mating cordset.

M12/Euro-Style
Straight connector models listed; for right-angle, add **RA** to the end of the model number (example, **MQDC1-506RA)**
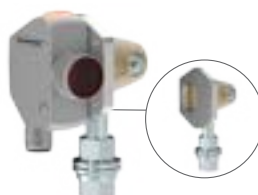
5-Pin
MQDC1-506
2 m (6.5')
MQDC1-515
5 m (15')
MQDC1-530
9 m (30')

M12/Euro-Style Washdown (IP69K)
Straight connector models only

5-Pin
MQDC-WDSS-0506
2 m (6.5')
MQDC-WDSS-0515
5 m (15')
MQDC-WDSS-0530
9 m (30')

Additional cordset information is available
See page 758

SMB18A

SMBAMS18P

SMBAMS18RA

SMB46L2

SMBQ4XFA
includes 3/8" bolt for mounting

SMBQ4XFAM10
includes 10 mm bolt for mounting

SMBQ4XFAM12
clamps directly onto industry standard bracket systems of 1/2" or 12 mm rods

Additional bracket information is available
See page 722

Q4X Specifications

Supply Voltage and Current	10 to 30 V dc
Laser Characteristics	**Wavelength:** Class 1 Laser: 655 nm visible red

Beam Spot Size

Distance (mm)	Size (Horizontal x Vertical)
25/35	2.4 mm x 1.0 mm
50/60	2.32mm x 0.9 mm
100/110	1.8 mm x 0.7 mm

Output Response Time	**User selectable**: 50 ms, 25 ms, 10 ms, 3 ms and 1.5 msw

Excess Gain

HIGH Excess Gain (STANDARD Excess Gain)

Response Speed (ms)	Excess Gain (90% white card)	
	25/35 mm	300/310 mm
1.5	200	20
3	200	20
10	1000 (500)	100 (50*)
25	2500 (1000)	250 (100*)
50	5000 (2500)	500 (250*)

Construction	Housing 316 L stainless steel; PMMA acrylic lens cover, Polysulfone lightpipe and display window
Ambient Light Immunity	Greater than 5000 lux
Environmental Rating	IP67 per IEC60529; IP68 per IEC60529; IP69K per DIN40050-9
Operating Conditions	**Temperature**: –10 to +55 °C **Humidity**: 35% to 95% relative humidity
Certifications	CE cULus LISTED ECOLAB