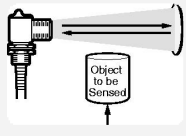


42EF RightSight™

Product Selection

Sensing Mode	Operating Voltage	Light Source	Sensing Distance	Sensitivity Adjustment	Output Function	Output Type‡	Cat. No.§					
Retroreflective 	10.8...30V DC	Visible red	0.025...4.5 m (0.08...14.7 ft)	No adjustment	Light operate	NPN and PNP	42EF-U2JBB-F4					
	21.6...264V AC/DC				Dark operate		42EF-U2KBB-F4					
		21.6...264V AC/DC	Visible red	0.025...4.5 m (0.08...14.7 ft)	No adjustment	Light operate	N-MOSFET	42EF-U2RCB-G4				
	Dark operate					42EF-U2SCB-G4						
Polarized retroreflective 	10.8...30V DC	Visible red	0.025...3 m (0.08...9.8 ft)	No adjustment	Light operate	NPN and PNP	42EF-P2JBB-F4					
	21.6...264V AC/DC				Dark operate		42EF-P2KBB-F4					
		21.6...264V AC/DC	Visible red	0.025...3 m (0.08...9.8 ft)	Single-turn knob	Light and dark operate	N-MOSFET	42EF-P2MNB-F4				
	Light operate					42EF-P2MPB-F4						
	24V DC ± 10%	Class 1 Laser	Class 1 Laser	0.05...15 m (0.16...49.2 ft)	Teach Button	Light operate	NPN & PNP	42EF-P8JBC-F4				
						Dark operate		42EF-P8KBC-F4				
Clear object detection 	10.8...30V DC	Visible red	0.025...1 m (0.08...3.3 ft)	Single-turn knob	Light operate	NPN and PNP	42EF-C2JBA-F4					
	21.6...284V AC/DC				Dark operate		42EF-C2KBA-F4					
		21.6...284V AC/DC	Visible red	0.025...1 m (0.08...3.3 ft)	Single-turn knob	Light operate	N-MOSFET	42EF-C2RCA-G4				
	Dark operate					42EF-C2SCA-G4						
Diffuse 	10.8...30V DC	Infrared	3...700 mm (0.1...27.6 in.)	Teach button	Light operate	NPN and PNP	42EF-D1JBCK-F4					
					Dark operate		42EF-D1KBCK-F4					
					3...500 mm (0.1...19.7 in.)		Light operate	42EF-D1JBAK-F4				
							Dark operate	42EF-D1KBAK-F4				
	3...500 mm (0.1...19.7 in.)	Light and dark operate	NPN	42EF-D1MNAK-F4								
				PNP	42EF-D1MPAK-F4							
	21.6...264V AC/DC	Infrared	3...300 mm (0.1...11.8 in.)	Single-turn knob	Light operate	N-MOSFET	42EF-D1RCAK-G4					
					Dark operate		42EF-D1SCAK-G4					
					24V DC ± 10%		Class 1 Laser	Class 1 Laser	3...300 mm (0.1...11.8 in.)	Single-turn knob	NPN and PNP	42EF-D8JBA-F4
												Dark operate
24V DC ± 10%	Class 1 Laser	Class 1 Laser	3...300 mm (0.1...11.8 in.)	Teach button	NPN and PNP	42EF-D8JBC-F4						
						Dark operate	42EF-D8KBC-F4					

Recommended standard 4-pin DC micro (M12) quick-disconnect cordset.

889D-F4AC-2

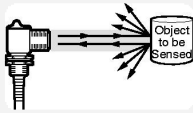
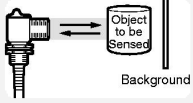
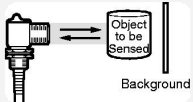
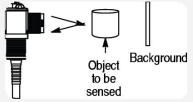
Recommended standard 4-pin DC pico (M8) quick-disconnect cordset.

889P-F4AB-2

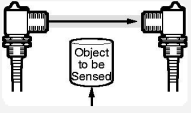

Recommended standard 4-pin AC micro (M12) quick-disconnect cordset.

889D-F4AEA-2


§ **Connection Options:** The -F4 suffix describes a 4-pin DC micro (M12) quick-disconnect connector on a 150 mm (6 in.) length cable for DC models and the -G4 describes a 4-pin AC micro (M12) quick-disconnect connector on a 150 mm (6 in.) length cable for AC models. For additional connection options, replace the -F4 or -G4 suffix with:
 -A2 for a 2 m cable without quick-disconnect connection (for example, 42EF-P2MPB-A2).
 -Y4 for a 4-pin DC pico (M8) quick-disconnect connection (for example, 42EF-P2MPB-Y4). This option is only available for DC non-laser models.
 ‡ P-MOSFET are available. Refer to ProposalWorks or visit www.ab.com/e-tools for additional product selection information.

Sensing Mode		Operating Voltage	Light Source	Sensing Distance	Sensitivity Adjustment	Output Function	Output Type†	Cat. No.§
Sharp cutoff diffuse		10.8...30V DC	Infrared	3...100 mm (0.1...3.93 in.)	Single-turn knob	Light operate	NPN & PNP	42EF-S1JBA-F4
						Dark operate		42EF-S1KBA-F4
		Light and dark operate				NPN	42EF-S1MNA-F4	
							PNP	42EF-S1MPA-F4
		Light operate				N-MOSFET	42EF-S1RCA-G4	
Dark operate	NPN and PNP	42EF-S1SCA-G4						
Background suppression		10.8...30V DC	Infrared	3...50 mm (0.1...2 in.)	No adjustment	Light operate	NPN and PNP	42EF-B1JBBC-F4
						Dark operate		42EF-B1KBBC-F4
		Light and dark operate	NPN	42EF-B1MNBC-F4				
				PNP	42EF-B1MPBC-F4			
		Light operate	N-MOSFET	42EF-B1RCBC-G4				
		Dark operate		42EF-B1SCBC-G4				
		10.8...30V DC	Infrared	3...100 mm (0.1...3.9 in.)	No adjustment	Light operate	NPN and PNP	42EF-B1JBBE-F4
						Dark operate		42EF-B1KBBE-F4
						Light and dark operate	NPN	42EF-B1MNBE-F4
								PNP
21.6...264V AC/DC	Infrared	3...100 mm (0.1...3.9 in.)	No adjustment	Light operate	N-MOSFET	42EF-B1RCBE-G4		
				Dark operate		42EF-B1SCBE-G4		
Background/Foreground Suppression		10...30V DC	Class 1 Laser	8...250 mm (0.31...9.84 in.)	Remote Teach	Light or dark operate	NPN and PNP	42EF-B8LBR-F5
								Pushbutton
Fixed Focus Diffuse		10...30V DC	Visible red	0.043 m (0.14 ft)	Teach button	Light operate	NPN & PNP	42EF-F2JBC-F4
					Single-turn knob			Dark operate
Recommended standard 4-pin DC micro (M12) quick-disconnect cordset.								889D-F4AC-2
Recommended standard 4-pin DC pico (M8) quick-disconnect cordset.								889P-F4AB-2
Recommended standard 4-pin AC micro (M12) quick-disconnect cordset.								889D-F4AEA-2

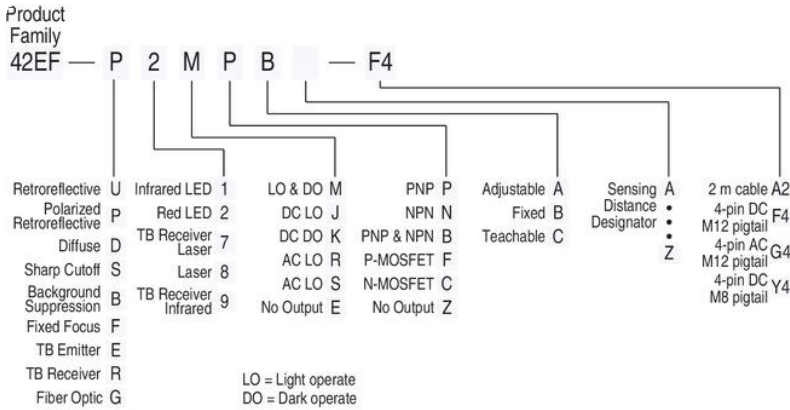
§ **Connection Options:** The -F4 suffix describes a 4-pin DC micro (M12) quick-disconnect connector on a 150 mm (6 in.) length cable for DC models and the -G4 describes a 4-pin AC micro (M12) quick-disconnect connector on a 150 mm (6 in.) length cable for AC models. For additional connection options, replace the -F4 or -G4 suffix with:
 -A2 for a 2 m cable without quick-disconnect connection (for example, 42EF-P2MPB-A2).
 -Y4 for a 4-pin DC pico (M8) quick-disconnect connection (for example, 42EF-P2MPB-Y4). This option is only available for DC non-laser models.
 † P-MOSFET are available. Refer to ProposalWorks or visit www.ab.com/e-tools for additional product selection information.

Sensing Mode		Operating Voltage	Light Source	Sensing Distance	Sensitivity Adjustment	Output Function	Output Type	Cat. No.5			
Transmitted beam		10.8...30V DC	Infrared 880 nm	Depends on Receiver	No adjustment	NA transmitted beam emitter	—	42EF-E1EZB-F4			
		21.6...264V AC/DC						42EF-E1OZB-G4			
		24V DC ± 10%						Class 1 Laser	42EF-E8EZB-F4		
		10.8...30V DC	Infrared	4 m (13.1 ft)	No adjustment	Light operate	NPN & PNP	42EF-R9JBBV-F4			
								Dark operate	42EF-R9KBBV-F4		
								Light and dark operate	NPN	42EF-R9MNBV-F4	
									PNP	42EF-R9MPBV-F4	
								21.6...264V AC/DC	Light operate	N-MOSFET	42EF-R9RCBV-G4
											Dark operate
		10.8...30V DC	Infrared	8 m (26.3 ft)	No adjustment	Light operate	NPN & PNP	42EF-R9JBTT-F4			
								Dark operate	42EF-R9KBTT-F4		
								Light and dark operate	NPN	42EF-R9MNBTT-F4	
									PNP	42EF-R9MPBTT-F4	
								21.6...264V AC/DC	Light operate	N-MOSFET	42EF-R9RCBT-G4
											Dark operate
		10.8...30V DC	Infrared	20 m (65.6 ft)	No adjustment	Light operate	NPN & PNP	42EF-R9JBB-F4			
								Dark operate	42EF-R9KBB-F4		
								Light and dark operate	NPN	42EF-R9MNB-F4	
PNP	42EF-R9MPB-F4										
21.6...264V AC/DC	Light operate							N-MOSFET	42EF-R9RCB-G4		
									Dark operate	42EF-R9SCB-G4	
24V DC ± 10%	Infrared	0.015...40 m (0.05...131.2 ft)	No adjustment	Light operate	NPN & PNP	42EF-R7JBB-F4					
						Dark operate	42EF-R7KBB-F4				
Large aperture fiber optic		10.8...30V DC	Infrared	Depends on Fiber Optic	Single-turn knob	Light operate	NPN & PNP	42EF-G1JBA-F4			
								Dark operate	42EF-G1KBA-F4		
								Light and dark operate	NPN	42EF-G1MNA-F4	
		PNP	42EF-G1MPA-F4								
		21.6...264V AC/DC	Light operate	N-MOSFET	42EF-G1RCA-G4						
					Dark operate	42EF-G1SCB-G4					
21.6...264V DC											
Recommended standard 4-pin DC micro (M12) quick-disconnect cordset.								889D-F4AC-2			
Recommended standard 4-pin DC pico (M8) quick-disconnect cordset.								889P-F4AB-2			
Recommended standard 4-pin AC micro (M12) quick-disconnect cordset.								889D-F4AEA-2			

5 Connection Options: The -F4 suffix describes a 4-pin DC micro (M12) quick-disconnect connector on a 150 mm (6 in.) length cable for DC models and the -G4 describes a 4-pin AC micro (M12) quick-disconnect connector on a 150 mm (6 in.) length cable for AC models. For additional connection options, replace the -F4 or -G4 suffix with:
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 -Y4 for a 4-pin DC pico (M8) quick-disconnect connection (for example, 42EF-P2MPB-Y4). This option is only available for DC non-laser models.

ATTENTION  P-MOSFET models have a lower in-rush current threshold for short-circuit protection than N-MOSFET. Therefore, they may be susceptible to false trigger or short-circuit protection due to induced noise. For high noise AC applications, we recommend the use of N-MOSFET models.

Cat. No. Explanation



The cat. no. structure is for reference only. Please do not use this to create a cat. no. as the result may be unavailable.