

M18 Series – With Cable Connection



Standard Technical Data

Voltage type	DC
Connection type	Fixed cable
Housing diameter D	18 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Type of installation	Detection range [mm]	Output type	Output type	Switching function	Switching frequency [Hz]	UB (min)	UB (max)	Cable length [mm]	Cable material	Length L	CCC	CSA	EAC	UL	E1
NBB5-18GK50-E0	Flush	5	3-wire	NPN	Normally-open (NO)	1000	10	30	2000	PVC	50	■	■			
NBB5-18GK50-E2	Flush	5	3-wire	PNP	Normally-open (NO)	1000	10	30	2000	PVC	50	■	■			
NBB5-18GM20-E2	Flush	5	3-wire	PNP	Normally-open (NO)	1000	10	30	2000	PVC	20	■	■			
NBB5-18GM40-E1	Flush	5	3-wire	NPN	Normally-closed (NC)	1000	10	30	2000	PVC	40	■	■			
NBB5-18GM40-E2	Flush	5	3-wire	PNP	Normally-open (NO)	1000	10	30	2000	PVC	40	■	■			
NBB5-18GM40-E2-5M	Flush	5	3-wire	PNP	Normally-open (NO)	1000	10	30	5000	PVC	40	■	■			
NBB5-18GM40-Z0	Flush	5	2-wire	2-wire	Normally-open (NO)	500	5	60	2000	PVC	40	■	■			
NBB5-18GM50-E0	Flush	5	3-wire	NPN	Normally-open (NO)	800	10	30	2000	PVC	50	■	■			
NBB5-18GM50-E0-5M	Flush	5	3-wire	NPN	Normally-open (NO)	800	10	30	5000	PVC	50					■
NBB5-18GM50-E2	Flush	5	3-wire	PNP	Normally-open (NO)	800	10	30	2000	PVC	50	■	■	■		
NBB5-18GM50-E2-10M	Flush	5	3-wire	PNP	Normally-open (NO)	800	10	30	10000	PVC	50					■
NBB5-18GM50-E2-5M	Flush	5	3-wire	PNP	Normally-open (NO)	800	10	30	5000	PVC	50	■	■			
NBB5-18GM50-E3	Flush	5	3-wire	PNP	Normally-closed (NC)	800	10	30	2000	PVC	50	■	■			
NBB5-18GM60-A0	Flush	5	4-wire	NPN	Complementary	800	10	30	2000	PVC	60	■	■			
NBB5-18GM60-A0-5M	Flush	5	4-wire	NPN	Complementary	800	10	30	5000	PVC	60	■	■			
NBB5-18GM60-A2	Flush	5	4-wire	PNP	Complementary	800	10	30	2000	PVC	60	■	■			
NBB5-18GM60-A2-5M	Flush	5	4-wire	PNP	Complementary	800	10	30	5000	PVC	60	■	■			
NBB5-18GM60-I	Flush	5	3-wire	Analog current output	4 mA ... 20 mA		10	30	2000	PVC	60					■
NBB5-18GM60-I3	Flush	5	3-wire	Analog current output	0 mA ... 20 mA		10	30	2000	PVC	60					■
NCB5-18GM40-Z0	Flush	5	2-wire	2-wire	Normally-open (NO)	350	5	60	2000	PUR	40	■	■			■
NCB5-18GM40-Z0-10M	Flush	5	2-wire	2-wire	Normally-open (NO)	350	5	60	10000	PUR	40	■	■			■
NCB5-18GM40-Z1	Flush	5	2-wire	2-wire	Normally-closed (NC)	350	5	60	2000	PUR	40	■	■			■
NJ5-18GK50-A2	Flush	5	3-wire	PNP	Complementary	500	10	60	2000	PVC	50	■	■			■
NJ5-18GM50-A2	Flush	5	4-wire	PNP	Complementary	500	10	60	2000	PVC	50	■	■			■
NJ5-18GM50-E	Flush	5	3-wire	NPN	Normally-open (NO)	1500	10	60	2000	PVC	50	■	■			■
NJ5-18GM50-E2	Flush	5	3-wire	PNP	Normally-open (NO)	1500	10	60	2000	PVC	50	■	■			■
NJ5-18GM50-E2-10M	Flush	5	3-wire	PNP	Normally-open (NO)	1500	10	60	10000	PVC	50	■	■			■
NJ5-18GM50-E2-5M	Flush	5	3-wire	PNP	Normally-open (NO)	1500	10	60	5000	PVC	50	■	■			■
NJ5-18GM50-E3	Flush	5	3-wire	PNP	Normally-closed (NC)	1500	10	60	2000	PVC	50	■	■			■
NBB8-18GM30-E2	Flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	2000	PVC	30	■	■			
NBB8-18GM30-E3	Flush	8	3-wire	PNP	Normally-closed (NC)	500	10	30	2000	PVC	30	■	■			
NBB8-18GM35-A0	Flush	8	4-wire	NPN	Complementary	1500	10	30	2000	PVC	35					■
NBB8-18GM35-A2	Flush	8	4-wire	PNP	Complementary	1500	10	30	2000	PVC	35					■
NBB8-18GM50-E0	Flush	8	3-wire	NPN	Normally-open (NO)	500	10	30	2000	PVC	50	■	■			
NBB8-18GM50-E2	Flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	2000	PVC	50	■	■			
NBB8-18GM50-E2-5M	Flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	5000	PVC	50	■	■	■		
NBB8-18GM50-E2-6M	Flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	6000	PVC	50	■	■			
NBB8-18GM60-A0	Flush	8	4-wire	NPN	Complementary	500	10	30	2000	PVC	60	■	■			

Model number	Type of installation	Detection range [mm]	Output type	Output type	Switching function	Switching frequency [Hz]	UB (min)	UB (max)	Cable length [mm]	Cable material	Length L	CCC	CSA	EAC	UL	E1
NBB8-18GM60-A2	Flush	8	4-wire	PNP	Complementary	500	10	30	2000	PVC	60	■			■	
NCB8-18GM50-Z4	Flush	8	2-wire	2-wire	Normally-open (NO)	1000	3.5	30	2000	PVC	48		■			■
NCB8-18GM50-Z5	Flush	8	2-wire	2-wire	Normally-closed (NC)	1000	3.5	30	2000	PVC	48		■			■
NEB12-18GM50-E0	Semi-flush	12	3-wire	NPN	Normally-open (NO)	500	10	30	2000	PUR	53		■	■	■	
NEB12-18GM50-E1	Semi-flush	12	3-wire	NPN	Normally-closed (NC)	500	10	30	2000	PUR	53		■	■	■	
NEB12-18GM50-E2	Semi-flush	12	3-wire	PNP	Normally-open (NO)	500	10	30	2000	PUR	53		■	■	■	
NEB12-18GM50-E3	Semi-flush	12	3-wire	PNP	Normally-closed (NC)	500	10	30	2000	PUR	53		■	■	■	
NBN8-18GK50-A2	Non-flush	8	4-wire	PNP	Complementary	500	10	30	2000	PVC	50		■			■
NBN8-18GM40-Z0	Non-flush	8	2-wire	2-wire	Normally-open (NO)	500	5	60	2000	PVC	40	■	■			■
NBN8-18GM50-E0	Non-flush	8	3-wire	NPN	Normally-open (NO)	500	10	30	2000	PVC	50		■			■
NBN8-18GM50-E2	Non-flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	2000	PVC	50		■	■	■	
NBN8-18GM50-E2-5M	Non-flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	5000	PVC	50		■			■
NBN8-18GM60-A0	Non-flush	8	4-wire	NPN	Complementary	700	10	30	2000	PVC	60		■			■
NBN8-18GM60-A2	Non-flush	8	4-wire	PNP	Complementary	700	10	30	2000	PVC	60		■			■
NCN8-18GM40-Z0	Non-flush	8	2-wire	2-wire	Normally-open (NO)	300	5	60	2000	PUR	40	■	■			■
NCN8-18GM40-Z1	Non-flush	8	2-wire	2-wire	Normally-closed (NC)	300	5	60	2000	PUR	40	■	■			■
NJ8-18GK50-A2	Non-flush	8	4-wire	PNP	Complementary	500	10	60	2000	PVC	50	■	■			■
NJ8-18GM50-A2	Non-flush	8	4-wire	PNP	Complementary	500	10	60	2000	PVC	50	■	■			■
NJ8-18GM50-E0	Non-flush	8	3-wire	NPN	Normally-open (NO)	1000	10	60	2000	PVC	50	■	■			■
NJ8-18GM50-E2	Non-flush	8	3-wire	PNP	Normally-open (NO)	1000	10	60	2000	PVC	50	■	■			■
NJ8-18GM50-E2-10M	Non-flush	8	3-wire	PNP	Normally-open (NO)	1000	10	60	10000	PVC	50	■	■			■
NJ8-18GM50-E2-5M	Non-flush	8	3-wire	PNP	Normally-open (NO)	1000	10	60	5000	PVC	50	■	■			■
NJ8-18GM50-E3	Non-flush	8	3-wire	PNP	Normally-closed (NC)	1000	10	60	2000	PVC	50	■	■			■
NBN12-18GM35-A0	Non-flush	12	4-wire	NPN	Complementary	1500	10	30	2000	PVC	35					■
NBN12-18GM35-A2	Non-flush	12	4-wire	PNP	Complementary	1500	10	30	2000	PVC	35					■
NBN12-18GM35-E2	Non-flush	12	3-wire	PNP	Normally-open (NO)	300	10	30	2000	PVC	50		■			■
NBN12-18GM35-E3	Non-flush	12	3-wire	PNP	Normally-closed (NC)	300	10	30	2000	PVC	35		■			■
NBN12-18GM35-E3-5M	Non-flush	12	3-wire	PNP	Normally-closed (NC)	300	10	30	5000	PVC	35					■
NBN12-18GK50-E0-M	Non-flush	12	3-wire	NPN	Normally-open (NO)	1500	5	60	2000	PUR	58	■	■			■
NBN12-18GK50-E1-M	Non-flush	12	3-wire	NPN	Normally-closed (NC)	1500	5	60	2000	PUR	58	■	■			■
NBN12-18GK50-E2-M	Non-flush	12	3-wire	PNP	Normally-open (NO)	1500	5	60	2000	PUR	58	■	■			■
NBN12-18GK50-E3-M	Non-flush	12	3-wire	PNP	Normally-closed (NC)	1500	5	60	2000	PUR	58	■	■			■
NBN12-18GM50-A0	Non-flush	12	4-wire	NPN	Complementary	1000	10	30	2000	PVC	50		■			■
NBN12-18GM50-A2	Non-flush	12	4-wire	PNP	Complementary	1000	10	30	2000	PVC	50		■			■
NBN12-18GM50-E0	Non-flush	12	3-wire	NPN	Normally-open (NO)	200	10	30	2000	PVC	50		■			■
NBN12-18GM50-E0-10M	Non-flush	12	3-wire	NPN	Normally-open (NO)	200	10	30	10000	PVC	50		■			■
NBN12-18GM50-E2	Non-flush	12	3-wire	PNP	Normally-open (NO)	200	10	30	2000	PVC	50		■			■
NCN12-18GM50-Z4	Non-flush	12	2-wire	2-wire	Normally-open (NO)	1000	3.5	30	2000	PVC	48		■			■
NCN12-18GM50-Z5	Non-flush	12	2-wire	2-wire	Normally-closed (NC)	1000	3.5	30	2000	PVC	48		■			■
NEN20-18GM50-E0	Non-flush	20	3-wire	NPN	Normally-open (NO)	200	10	30	2000	PUR	53		■	■	■	
NEN20-18GM50-E1	Non-flush	20	3-wire	NPN	Normally-closed (NC)	200	10	30	2000	PUR	53		■	■	■	
NEN20-18GM50-E2	Non-flush	20	3-wire	PNP	Normally-open (NO)	200	10	30	2000	PUR	53		■	■	■	
NEN20-18GM50-E3	Non-flush	20	3-wire	PNP	Normally-closed (NC)	200	10	30	2000	PUR	53		■	■	■	

Accessories	
BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
EXG-18	Quick-mounting bracket with fixed stop

M18 Series – With Plug Connection

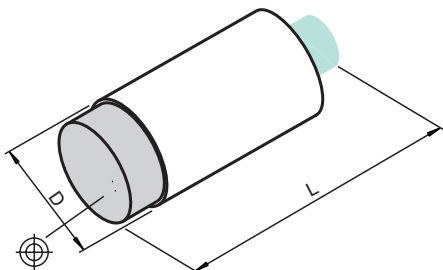


Standard Technical Data	
Voltage type	DC
Connection type	M12 connector plug
Housing diameter D	18 mm

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model number	Type of installation	Detection range [mm]	Output type	Output type	Switching function	Switching frequency [Hz]	UB (min)	UB (max)	Length L	CCC	CSA	EAC	UL
NBB5-18GM20-E2-V1	Flush	5	3-wire	PNP	Normally-open (NO)	1000	10	30	20	■			■
NBB5-18GH40-E2-V1	Flush	5	3-wire	PNP	Normally-open (NO)	1000	10	30	39				
NBB5-18GM40-E2-V1	Flush	5	3-wire	PNP	Normally-open (NO)	1000	10	30	39	■			■
NBB5-18GM40-Z0-V1	Flush	5	2-wire	2-wire	Normally-open (NO)	500	5	60	40	■	■		■
NBB5-18GM40-Z3-V1	Flush	5	2-wire	2-wire	Normally-open (NO)	500	5	60	40	■	■		■
NBB5-18GM50-E0-V1	Flush	5	3-wire	NPN	Normally-open (NO)	800	10	30	50		■		■
NBB5-18GM50-E2-V1	Flush	5	3-wire	PNP	Normally-open (NO)	800	10	30	50		■	■	■
NBB5-18GM50-E3-V1	Flush	5	3-wire	PNP	Normally-closed (NC)	800	10	30	50				■
NBB5-18GM60-A0-V1	Flush	5	4-wire	NPN	Complementary	800	10	30	60		■		■
NBB5-18GM60-A2-V1	Flush	5	4-wire	PNP	Complementary	800	10	30	60		■		■
NBB5-18GM60-I-V1	Flush	5	3-wire	Analog current output	4 mA ... 20 mA		10	30	75				■
NBB5-18GM60-I3-V1	Flush	5	3-wire	Analog current output	0 mA ... 20 mA		10	30	75				■
NBB5-18GM70-E2-V1	Flush	5	3-wire	PNP	Normally-open (NO)	800	10	30	70		■		■
NCB5-18GM40-Z0-V1	Flush	5	2-wire	2-wire	Normally-open (NO)	350	5	60	40	■	■		■
NCB5-18GM40-Z1-V1	Flush	5	2-wire	2-wire	Normally-closed (NC)	350	5	60	40	■	■		■
NCB5-18GM40-Z3-V1	Flush	5	2-wire	2-wire	Normally-open (NO)	350	5	60	55	■	■		■
NCB5-18GM60-B3B-V1	Flush	5	2-wire	AS-Interface	Normally open/close selectable	100	26.5	31.9	70		■		■
NJ5-18GM50-A2-V1	Flush	5	4-wire	PNP	Complementary	500	10	60	50	■	■		■
NJ5-18GM50-E-V1	Flush	5	3-wire	NPN	Normally-open (NO)	1500	10	60	65	■	■		■
NJ5-18GM50-E2-V1	Flush	5	3-wire	PNP	Normally-open (NO)	1500	10	60	65	■	■		■
NJ5-18GM50-E3-V1	Flush	5	3-wire	PNP	Normally-closed (NC)	1500	10	60	65	■	■		■
NBB8-18GM30-E2-V1	Flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	30		■		■
NBB8-18GM30-E3-V1	Flush	8	3-wire	PNP	Normally-closed (NC)	500	10	30	30		■		■
NBB8-18GM35-A0-V1	Flush	8	4-wire	NPN	Complementary	1500	10	30	51				■
NBB8-18GM35-A2-V1	Flush	8	4-wire	PNP	Complementary	1500	10	30	51				■
NBB8-18GM50-E0-V1	Flush	8	3-wire	NPN	Normally-open (NO)	500	10	30	50		■		■
NBB8-18GM50-E2-V1	Flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	50		■	■	■
NBB8-18GM60-A0-V1	Flush	8	4-wire	NPN	Complementary	500	10	30	60		■		■
NBB8-18GM60-A2-V1	Flush	8	4-wire	PNP	Complementary	500	10	30	60		■	■	■
NBB8-18GM60-B3-V1	Flush	8	2-wire	AS-Interface	Normally open/close selectable	200	26.5	31.9	75		■		■
NBB8-18GM60-B3B-V1	Flush	8	2-wire	AS-Interface	Normally open/close selectable	200	26.5	31.9	75		■		■
NCB8-18GM50-E2-V1	Flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	50		■		■
NCB8-18GM50-Z4-V1	Flush	8	2-wire	2-wire	Normally-open (NO)	1000	3.5	30	65		■		■
NCB8-18GM50-Z5-V1	Flush	8	2-wire	2-wire	Normally-closed (NC)	1000	3.5	30	60		■		■
NCB8-18GM50-Z7-V1	Flush	8	2-wire	2-wire	Normally-closed (NC)	1000	3.5	30	60		■		■
NEB12-18GM50-E0-V1	Semi-flush	12	3-wire	NPN	Normally-open (NO)	500	10	30	69		■	■	■
NEB12-18GM50-E1-V1	Semi-flush	12	3-wire	NPN	Normally-closed (NC)	500	10	30	69		■	■	■
NEB12-18GM50-E2-V1	Semi-flush	12	3-wire	PNP	Normally-open (NO)	500	10	30	69		■	■	■

Model number	Type of installation	Detection range [mm]	Output type	Output type	Switching function	Switching frequency [Hz]	UB (min)	UB (max)	Length L	CCC	CSA	EAC	UL
NEB12-18GM50-E3-V1	Semi-flush	12	3-wire	PNP	Normally-closed (NC)	500	10	30	69	■	■	■	■
NBN8-18GM40-E3-V1	Non-flush	8	3-wire	PNP	Normally-closed (NC)	1000	10	30	40	■	■	■	■
NBN8-18GM40-Z0-V1	Non-flush	8	2-wire	2-wire	Normally-open (NO)	450	5	60	40	■	■	■	■
NBN8-18GM40-Z3-V1	Non-flush	8	2-wire	2-wire	Normally-open (NO)	450	5	60	40	■	■	■	■
NBN8-18GM50-E0-V1	Non-flush	8	3-wire	NPN	Normally-open (NO)	500	10	30	50	■	■	■	■
NBN8-18GM50-E2-V1	Non-flush	8	3-wire	PNP	Normally-open (NO)	500	10	30	65	■	■	■	■
NBN8-18GM60-A0-V1	Non-flush	8	4-wire	NPN	Complementary	700	10	30	60	■	■	■	■
NBN8-18GM60-A2-V1	Non-flush	8	4-wire	PNP	Complementary	700	10	30	60	■	■	■	■
NCN8-18GM40-Z0-V1	Non-flush	8	2-wire	2-wire	Normally-open (NO)	300	5	60	40	■	■	■	■
NCN8-18GM40-Z1-V1	Non-flush	8	2-wire	2-wire	Normally-closed (NC)	300	5	60	40	■	■	■	■
NCN8-18GM60-B3B-V1	Non-flush	8	2-wire	AS-Interface	Normally open/close selectable	100	26.5	31.9	60	■	■	■	■
NJ8-18GM50-A2-V1	Non-flush	8	4-wire	PNP	Complementary	500	10	60	65	■	■	■	■
NJ8-18GM50-E-V1	Non-flush	8	3-wire	NPN	Normally-open (NO)	1000	10	60	65	■	■	■	■
NJ8-18GM50-E2-V1	Non-flush	8	3-wire	PNP	Normally-open (NO)	1000	10	60	65	■	■	■	■
NJ8-18GM50-E3-V1	Non-flush	8	3-wire	PNP	Normally-closed (NC)	1000	10	60	65	■	■	■	■
NBN12-18GM35-A0-V1	Non-flush	12	4-wire	NPN	Complementary	1500	10	30	51	■	■	■	■
NBN12-18GM35-A2-V1	Non-flush	12	4-wire	PNP	Complementary	1500	10	30	51	■	■	■	■
NBN12-18GM35-E2-V1	Non-flush	12	3-wire	PNP	Normally-open (NO)	300	10	30	50	■	■	■	■
NBN12-18GM50-A0-V1	Non-flush	12	4-wire	NPN	Complementary	1000	10	30	65	■	■	■	■
NBN12-18GM50-A2-V1	Non-flush	12	4-wire	PNP	Complementary	1000	10	30	65	■	■	■	■
NBN12-18GM50-E0-V1	Non-flush	12	3-wire	NPN	Normally-open (NO)	200	10	30	50	■	■	■	■
NBN12-18GM50-E2-V1	Non-flush	12	3-wire	PNP	Normally-open (NO)	200	10	30	50	■	■	■	■
NCN12-18GM50-Z4-V1	Non-flush	12	2-wire	2-wire	Normally-open (NO)	1000	3.5	30	60	■	■	■	■
NCN12-18GM50-Z5-V1	Non-flush	12	2-wire	2-wire	Normally-closed (NC)	1000	3.5	30	60	■	■	■	■
NCN12-18GM50-Z7-V1	Non-flush	12	2-wire	2-wire	Normally-closed (NC)	1000	3.5	30	60	■	■	■	■
NEN20-18GM50-E0-V1	Non-flush	20	3-wire	NPN	Normally-open (NO)	200	10	30	69	■	■	■	■
NEN20-18GM50-E1-V1	Non-flush	20	3-wire	NPN	Normally-closed (NC)	200	10	30	69	■	■	■	■
NEN20-18GM50-E2-V1	Non-flush	20	3-wire	PNP	Normally-open (NO)	200	10	30	69	■	■	■	■
NEN20-18GM50-E3-V1	Non-flush	20	3-wire	PNP	Normally-closed (NC)	200	10	30	69	■	■	■	■



Accessories

BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
EXG-18	Quick-mounting bracket with fixed stop
V1-G-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable
V1-G-BK0,3M-PUR-U-V1-G	Cordset, M12 to M12, PUR cable, 4-pin
V1-G-BK1M-PUR-U-V1-G	Cordset, M12 to M12, PUR cable, 4-pin
V1-W-2M-PUR	Single-ended female cordset, M12, 4-pin, PUR cable