



Powering Business Worldwide

03/22 IL05301003Z (P20773)

Instruction Leaflet
Montageanweisung
Notice d'installation
Instrucciones de montaje
Istruzioni per il montaggio
安裝說明
Инструкция по монтажу

Montagehandleiding
Montagevejledning
Οδηγίες εγκατάστασης
Instruções de montagem
Monteringsanvisning
Asennusohje
Návod k montáži

Paigaldusjuhend
Szerelési utasítás
Montážas instrukcija
Montavimo instrukcija
Instrukcja montażu
Navodila za montažo
Návod na montáž

Монтажни инструкции
Instrucțiuni de montaj
Upute za montažu
Montaj talimati
Інструкція з монтажу
منشور التعليمات



(en) Electric current! Danger to life!
Only skilled or instructed persons may carry out the following operations.

(de) Lebensgefahr durch elektrischen Strom!

Nur Elektrofachkräfte und elektrotechnisch unterwiesene Personen dürfen die im Folgenden beschriebenen Arbeiten ausführen.

(fr) Tension électrique dangereuse !

Seules les personnes qualifiées et averties doivent exécuter les travaux ci-après.

(es) ¡Corriente eléctrica! ¡Peligro de muerte!

El trabajo a continuación descrito debe ser realizado por personas cualificadas y advertidas.

(it) Tensione elettrica: Pericolo di morte!

Solo persone abilitate e qualificate possono eseguire le operazioni di seguito riportate.

(zh) 触电危险!

只允许专业人员和受过专业训练的人员进行下列工作。

(ru) Электрический ток! Опасно для жизни!

Только специалисты или проинструктированные лица могут выполнять следующие операции.

(nl) Levensgevaar door elektrische stroom!

Uitsluitend deskundigen in elektriciteit en elektrotechnisch geïnstrueerde personen is het toegestaan, de navolgend beschreven werkzaamheden uit te voeren.

(da) Livsfare på grund af elektrisk strøm!

Kun uddannede el-installatører og personer der er instruerede i elektrotekniske arbejdsopgaver, må udføre de nedenfor anførte arbejder.

(el) Προσοχή, κίνδυνος ηλεκτροπληξίας!

Οι εργασίες που αναφέρονται στη συνέχεια θα πρέπει να εκτελούνται μόνο από ηλεκτρολόγους και ηλεκτροτεχνίτες.

(pt) Perigo de vida devido a corrente eléctrica!

Apenas electricistas e pessoas com formação electrotécnica podem executar os trabalhos que a seguir se descrevem.

(sv) Livsfara genom elektrisk ström!

Endast utbildade elektriker och personer som undervisats i elektroteknik får utföra de arbeten som beskrivs nedan.

(fi) Hengenvaarallinen jännite!

Vain pätevät sähköasentajat ja opastusta saaneet henkilöt saavat suorittaa seuraavat työt.

(cs) Nebezpečí úrazu elektrickým proudem!

Niže uvedené práce smějí provádět pouze osoby s elektrotechnickým vzděláním.

(et) Eluohhtlik! Elektrilöögioht!

Järgnevalt kirjeldatud töid tohib teostada ainult elektriala spetsialist või elektrotehnilise instrueerimise läbinud personal.

(hu) Életveszély az elektromos áram révén!

Csak elektromos szakemberek és elektrotechnikában képzett személyek végezhetik el a következőkben leírt munkákat.

(lv) Elektriskā strāva apdraud dzīvību!

Tālāk aprakstītos darbus drīkst veikt tikai elektrospeciālisti un darbam ar elektrotehnikām iekārtām instruētās personas!

(lt) Pavojus gyvybei dėl elektros srovės!

Tik elektrikai ir elektrotechnikos specialistai gali atlikti žemiau aprašytus darbus.

(pl) Porażenie prądem elektrycznym stanowi zagrożenie dla życia!

Opisane poniżej prace mogą przeprowadzać tylko wykwalifikowani elektrycy oraz osoby odpowiednio poinstruowane w zakresie elektrotechniki.

(sl) Življenjska nevarnost zaradi električnega toka!

Spodaj opisana dela smejo izvajati samo elektrostrokovnjaki in elektrotehnično poučene osebe.

(sk) Nebezpečstvo ohrozenia života elektrickým prúdom!

Práce, ktoré sú nižšie opísané, smú vykonávať iba elektroodborníci a osoby s elektrotechnickým vzdelaním.

(bg) Опасност за живота от електрически ток!

Операциите, описани в следващите раздели, могат да се извършват само от специалисти-електротехници и инструктиран електротехнически персонал.

(ro) Atenție! Pericol electric!

Toate lucrările descrise trebuie efectuate numai de personal de specialitate calificat și de persoane cu cunoștințe profunde în electrotehnică.

(hr) Opasnost po život uslijed električne struje!

Radove opisane u nastavku smiju obavljati samo stručni električari i osobe koje su prošle elektrotehničku obuku.

(tr) Elektrik akımı! Hayati tehlike!

Aşağıdaki işlemleri yalnızca kalifiye veya eğitimli kişiler gerçekleştirebilir.

(uk) Електричний струм! Небезпечно для життя!

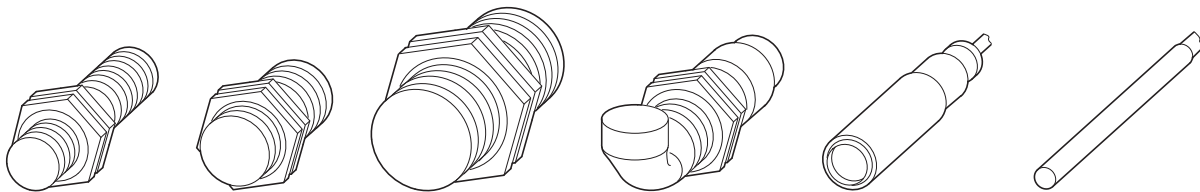
Виконувати означені далі операції дозволяється тільки кваліфікованим особам, що пройшли інструктаж.

(ar) تحذير! تيار كهربائي! خطر موت!

لا تتم اعمال الصيانة والتركيب إلا من قبل العاملين المدربين!

Premium Plus Series Inductive Sensors +Short, +Miniature


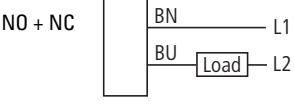
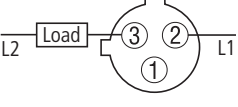
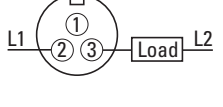
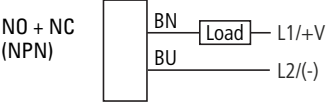
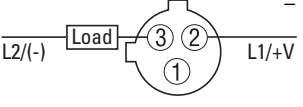
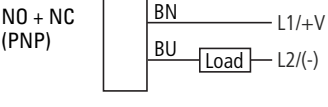
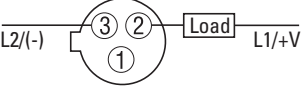

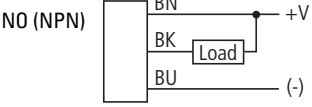
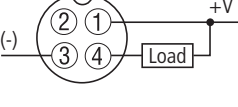
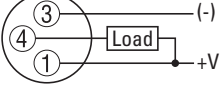
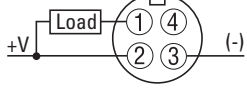
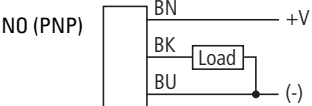
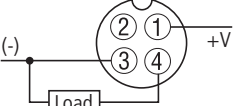
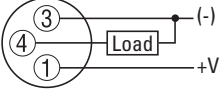
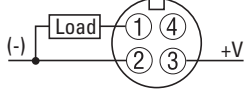
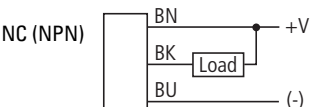
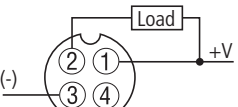
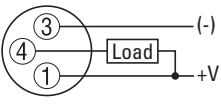
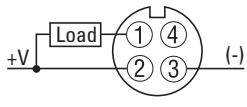
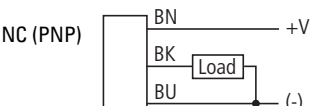
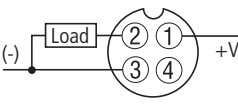
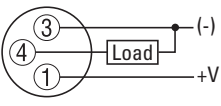
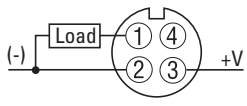
E57...



	[mm]	[in]	[Nm]	[lb-in]
M8	13	0.51	5.5	48.7
M12	17	0.67	5.5	48.7
M18	24	0.94	20	177
M30	36	1.42	41	362.9

→ The sensing range for this model is printed on the product label. Other sensing ranges are available.

Wiring diagrams

		2 m (6.56 ft) Cable	M12 x 1 Micro	M8 Nano	7/8" Mini
 AC/DC AC		E57...A2, E57...A2E, E57...A4, E57...A4E 	E57...A2SA, E57...A4SA E57...A2EA, E57...A4EA 	-	
	AC/DC	E57...A2..., E57...A2E... 	E57...A2...A, E57...A4... 	-	-
	NO + NC (PNP) 		-	-	
 DC	E57LAL... E57RAL... E57SAL... E57EAL... NO (NPN) 	E57...T110, E57...T110E, E57...T110...P 			
		E57...T111, E57...T111E, E57...T111...P NO (PNP) 	E57...T111...D 		
		E57LBL... E57RBL... E57SBL... E57EBL... NC (NPN) 	E57...T110, E57...T110E, E57...T110...P 		
		E57...T111, E57...T111E, E57...T111...P NC (PNP) 	E57...T111...D 		

→ DIN IEC 304, DIN IEC 757






BK	0
BN	1
BU	6
GNYE	54

03/22 IL06301003Z (P20773)

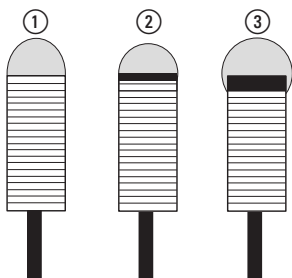
E57 Premium+ Series Sensors

Dimensions



mm (in)		a	b	c	d	e	
	AC Cable						
	Ø 12	①	62.4 (2.46)	50.3 (1.98)	–	16.8 (0.67)	M12 x 1
		②	72.8 (2.87)	57.9 (2.28)	1.62 (0.06)	16.8 (0.67)	M12 x 1
		③	72.7 (2.87)	50.3 (1.98)	9.14 (0.36)	16.8 (0.67)	M12 x 1
	Ø 18	①	64.5 (2.54)	50.9 (2.00)	–	23.8 (0.94)	M18 x 1
		②	66.1 (2.60)	48.2 (1.90)	2.54 (0.10)	23.8 (0.94)	M18 x 1
		③	66.0 (2.60)	37.2 (1.47)	14.1 (0.56)	23.8 (0.94)	M18 x 1
	Ø 30	①	69.3 (2.73)	50.3 (1.98)	–	35.9 (1.41)	M30 x 1.5
		②	67.8 (2.67)	48.2 (1.90)	3.30 (0.13)	35.9 (1.41)	M30 x 1.5
③		69.3 (2.73)	37.8 (1.49)	13.26 (0.52)	35.9 (1.41)	M30 x 1.5	
	AC Micro Connector M12 x 1						
	Ø 12	①	68.4 (2.69)	50.3 (1.98)	–	16.8 (0.67)	M12 x 1
		②	77.2 (3.04)	57.9 (2.28)	1.62 (0.06)	16.8 (0.67)	M12 x 1
		③	77.7 (3.06)	50.3 (1.98)	9.14 (0.36)	9.14 (0.36)	M12 x 1
	Ø 18	①	69.06 (2.72)	50.9 (2.00)	–	23.8 (0.94)	M18 x 1
		②	69.1 (2.72)	48.2 (1.90)	2.54 (0.10)	23.8 (0.94)	M18 x 1
		③	69.4 (2.74)	37.2 (1.47)	14.1 (0.56)	23.8 (0.94)	M18 x 1
	Ø 30	①	73.8 (2.91)	50.3 (1.98)	–	35.9 (1.41)	M30 x 1.5
		②	70.6 (2.78)	48.2 (1.90)	3.30 (0.13)	35.9 (1.41)	M30 x 1.5
③		73.8 (2.91)	37.8 (1.49)	13.26 (0.52)	35.9 (1.41)	M30 x 1.5	
	AC Mini Connector 7/8"						
	Ø 18	①	86.1 (3.39)	50.8 (2.00)	0.5 (0.02)	23.8 (0.94)	M18 x 1
		②	86.1 (3.39)	48.2 (1.90)	2.54 (0.10)	23.8 (0.94)	M18 x 1
		③	86.1 (3.39)	37.0 (1.46)	14.5 (0.57)	23.8 (0.94)	M18 x 1
	Ø 30	①	86.1 (3.39)	53.3 (2.1)	0.8 (0.03)	35.9 (1.41)	M30 x 1.5
		②	87.4 (3.44)	48.2 (1.90)	3.30 (0.13)	35.9 (1.41)	M30 x 1.5
③		86.1 (3.39)	39.4 (1.55)	14.0 (0.55)	35.9 (1.41)	M30 x 1.5	
	AC/DC Cable						
	Ø 12	①	62.4 (2.45)	50.3 (9.98)	–	16.8 (0.67)	M12 x 1
		③	62.4 (2.45)	45.8 (1.80)	5 (0.20)	16.8 (0.67)	M12 x 1
	Ø 18	①	64.5 (2.54)	50.9 (2.00)	–	23.8 (0.94)	M18 x 1
		③	64.5 (2.54)	44.4 (1.75)	7 (0.28)	23.8 (0.94)	M18 x 1
	Ø 30	①	69.3 (2.72)	50.3 (1.98)	–	35.9 (1.41)	M30 x 1.5
		③	69.3 (2.72)	37.8 (1.49)	13.26 (0.52)	35.9 (1.41)	M30 x 1.5
		AC/DC Micro Connector M12 x 1					
		Ø 12	①	68.4 (2.69)	50.3 (1.98)	–	16.8 (0.67)
③			68.4 (2.69)	45.8 (1.80)	5 (0.20)	16.8 (0.67)	M12 x 1
Ø 18		①	69.06 (2.72)	50.9 (2.00)	–	23.8 (0.94)	M18 x 1
		③	69.06 (2.72)	44.4 (1.75)	7 (0.28)	23.8 (0.94)	M18 x 1
Ø 30		①	73.8 (2.91)	50.3 (1.98)	–	35.9 (1.41)	M30 x 1.5
		③	73.8 (2.91)	37.8 (1.49)	13.26 (0.52)	35.9 (1.41)	M30 x 1.5

03/22 IL05301003Z (P20773)






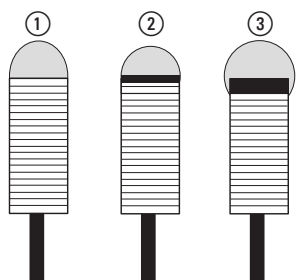
- ① shielded
- ② semi-shielded
- ③ unshielded
- ④ Sensing face

E57 Premium+ Series Sensors

Dimensions



mm (in)		a	b	c	d	e
 DC Cable Ø 12 Ø 18 Ø 30	①	62.4 (2.46)	50.3 (1.98)	–	16.8 (0.67)	M12 x 1
	②	72.8 (2.87)	57.9 (2.28)	1.62 (0.06)	16.8 (0.67)	M12 x 1
	③	72.7 (2.87)	50.3 (1.98)	9.14 (0.36)	16.8 (0.67)	M12 x 1
	①	64.5 (2.54)	50.9 (2.00)	–	23.8 (0.94)	M18 x 1
	②	66.1 (2.60)	48.2 (1.90)	2.54 (0.10)	23.8 (0.94)	M18 x 1
	③	66.0 (2.60)	37.2 (1.47)	14.1 (0.56)	23.8 (0.94)	M18 x 1
	①	69.3 (2.73)	50.3 (1.98)	–	35.9 (1.41)	M30 x 1.5
	②	67.8 (2.67)	48.2 (1.90)	3.30 (0.13)	35.9 (1.41)	M30 x 1.5
	③	69.3 (2.73)	37.8 (1.49)	13.26 (0.52)	35.9 (1.41)	M30 x 1.5
 DC Micro Connector M12 x 1 Ø 12 Ø 18 Ø 30	①	68.7 (2.71)	50.3 (1.98)	–	16.8 (0.67)	M12 x 1
	②	77.2 (3.04)	57.9 (2.28)	1.62 (0.06)	16.8 (0.67)	M12 x 1
	③	77.7 (3.06)	50.9 (1.98)	9.14 (0.36)	16.8 (0.67)	M12 x 1
	①	69.3 (2.73)	50.9 (2.00)	–	23.8 (0.94)	M18 x 1
	②	69.1 (2.72)	48.2 (1.90)	2.54 (0.10)	23.8 (0.94)	M18 x 1
	③	69.4 (2.74)	37.2 (1.47)	14.1 (0.56)	23.8 (0.94)	M18 x 1
	①	74.1 (2.92)	50.3 (1.98)	–	35.9 (1.41)	M30 x 1.5
	②	70.6 (2.78)	48.2 (1.90)	3.30 (0.13)	35.9 (1.41)	M30 x 1.5
	③	74.1 (2.92)	37.8 (1.49)	13.26 (0.52)	35.9 (1.41)	M30 x 1.5
 DC Mini Connector 7/8" Ø 18 Ø 30	①	86.1 (3.39)	50.8 (2.00)	0.5 (0.02)	23.8 (0.94)	M18 x 1
	②	86.0 (3.39)	48.2 (1.90)	2.54 (0.10)	23.8 (0.94)	M18 x 1
	③	86.1 (3.39)	37.0 (1.46)	14.5 (0.57)	23.8 (0.94)	M18 x 1
	①	86.1 (3.39)	2.1 (53.3)	0.8 (0.03)	35.9 (1.41)	M30 x 1.5
	②	87.4 (3.44)	48.2 (1.90)	3.30 (0.13)	35.9 (1.41)	M30 x 1.5
	③	86.1 (3.39)	39.4 (1.55)	14.0 (0.55)	35.9 (1.41)	M30 x 1.5

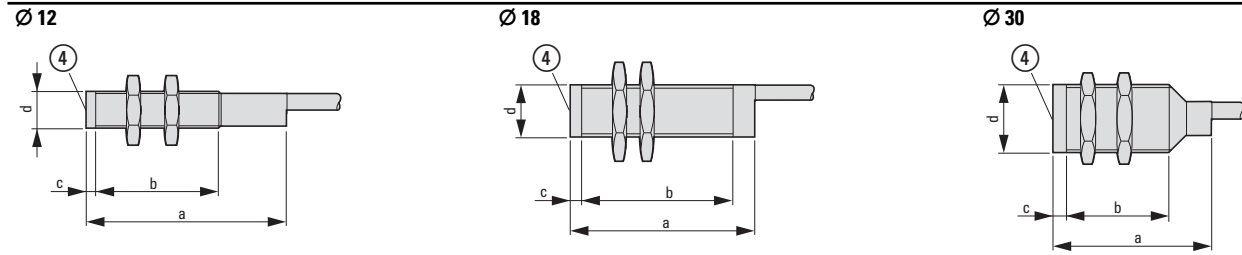





- ① shielded
- ② semi-shielded
- ③ unshielded
- ④ Sensing face

03/22 IL05301003Z (P20773)

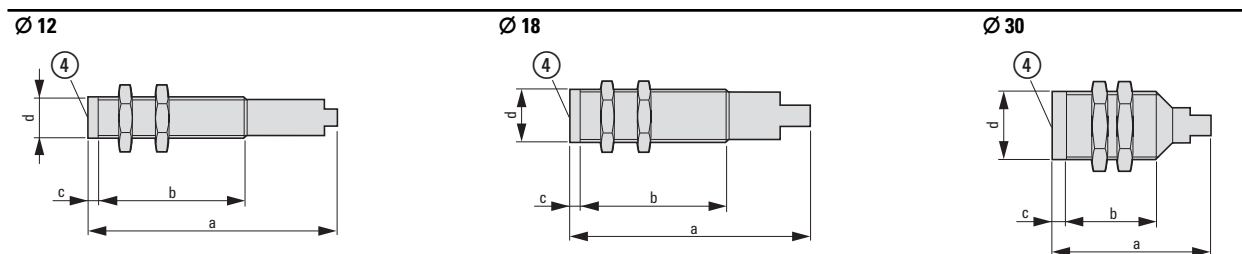
E57 Premium+ Series Short Barrel Sensors




Dimensions



mm (in)		a	b	c	d	
	AC Cable					
	Ø 12	①	51.7 (2.04)	39.6 (1.56)	0.5 (0.02)	M12 x 1
		③	51.7 (2.04)	35.1 (1.38)	5 (0.20)	M12 x 1
	Ø 18	①	35.3 (1.39)	0.86 (21.82)	0.5 (0.02)	M18 x 1
		③	35.3 (1.39)	15.32 (0.60)	7 (0.28)	M18 x 1
	Ø 30	①	40.2 (1.58)	25.15 (0.99)	0.8 (0.03)	M30 x 1.5
③		44.9 (1.77)	17.27 (0.68)	13.26 (0.52)	M30 x 1.5	
	AC/DC Cable					
	Ø 12	①	62.4 (2.46)	50.27 (1.98)	–	M12 x 1
		③	62.4 (2.46)	45.77 (1.80)	5 (0.20)	M12 x 1
	Ø 18	①	64.5 (2.54)	50.9 (2.00)	–	M18 x 1
		③	64.5 (2.54)	44.4 (1.75)	7 (0.28)	M18 x 1
	Ø 30	①	69.3 (2.72)	53.8 (2.12)	–	M30 x 1.5
③		69.3 (2.72)	41.4 (1.63)	13.26 (0.52)	M30 x 1.5	
	DC Cable					
	Ø 12	①	35.3 (1.39)	23.09 (0.91)	0.5 (0.02)	M12 x 1
		③	35.3 (1.39)	18.59 (0.73)	5 (0.20)	M12 x 1
	Ø 18	①	35.3 (1.39)	21.82 (0.86)	0.5 (0.02)	M18 x 1
		③	35.3 (1.39)	15.32 (0.60)	7 (0.28)	M18 x 1
	Ø 30	①	40.2 (1.58)	21.26 (0.84)	0.8 (0.03)	M30 x 1.5
③		44.9 (1.77)	13.46 (0.53)	13.26 (0.52)	M30 x 1.5	

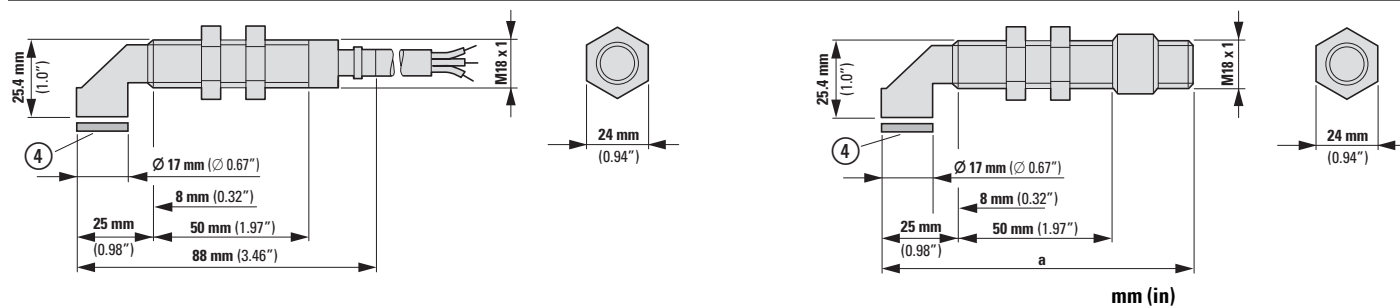
03/22 IL05301003Z (P20773)



mm (in)		a	b	c	d	
	AC Micro Connector M12 x 1					
	Ø 12	①	57.8 (2.27)	39.6 (1.56)	0.5 (0.02)	M12 x 1
		③	57.8 (2.27)	35.1 (1.38)	5 (0.20)	M12 x 1
	Ø 18	①	40.0 (1.57)	21.82 (0.86)	0.5 (0.02)	M18 x 1
		③	40.0 (1.57)	15.32 (0.60)	7 (0.28)	M18 x 1
	Ø 30	①	44.8 (1.76)	25.15 (0.99)	0.8 (0.03)	M30 x 1.5
③		49.5 (1.95)	17.27 (0.68)	13.26 (0.52)	M30 x 1.5	
	AC/DC Micro Connector M12 x 1					
	Ø 12	①	68.4 (2.69)	50.27 (1.98)	–	M12 x 1
		③	68.4 (2.69)	45.77 (1.80)	5 (0.20)	M12 x 1
	Ø 18	①	69.06 (2.72)	50.9 (2.00)	–	M18 x 1
		③	69.06 (2.72)	44.4 (1.75)	7 (0.28)	M18 x 1
	Ø 30	①	73.8 (2.91)	53.8 (2.12)	–	M30 x 1.5
③		73.8 (2.91)	41.4 (1.63)	13.26 (0.52)	M30 x 1.5	
	DC Micro Connector M12 x 1					
	Ø 12	①	41.5 (1.64)	23.09 (0.91)	0.5 (0.02)	M12 x 1
		③	41.5 (1.64)	18.59 (0.73)	5 (0.20)	M12 x 1
	Ø 18	①	40.3 (1.59)	21.82 (0.86)	0.5 (0.02)	M18 x 1
		③	40.3 (1.59)	15.32 (0.60)	7 (0.28)	M18 x 1
	Ø 30	①	45.0 (1.77)	21.26 (0.84)	0.8 (0.03)	M30 x 1.5
③		49.7 (1.96)	13.46 (0.53)	13.26 (0.52)	M30 x 1.5	

E57 Premium+ Series Sensors, Right Angle Sensing

Dimensions



mm (in)	
a	
Mini 7/8"	109 (4.3)
Micro M12 x 1	93 (3.65)

E57 Miniature Short Body Sensors

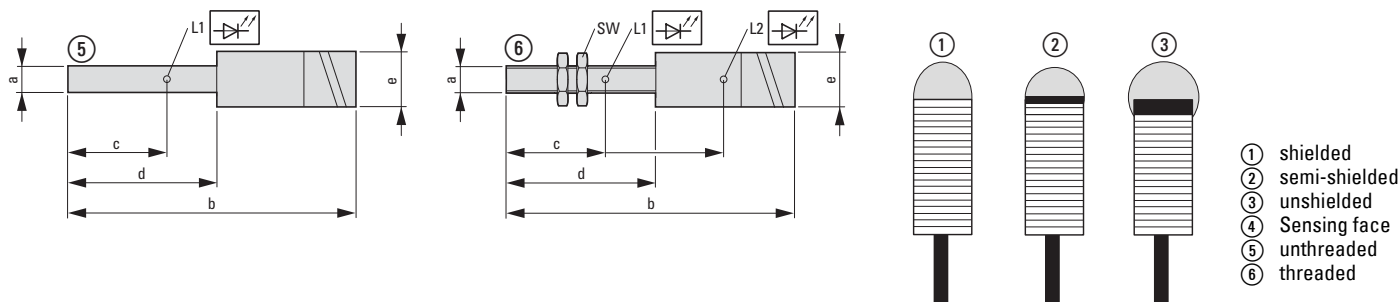
Dimensions

Cable



mm (in)		a	b	c	SW	LED
Cable						
Ø 4	⑤	4 (0.16)	25 (1.0)	—	—	L1
Ø 5	⑥	5 (0.2)	25 (1.0)	21 (0.8)	M5 x 0.5	L1
Ø 6.5	⑤	6.5 (0.26)	45 (1.8)	—	—	L2
Ø 8	⑥	8 (0.31)	30 (1.2)	30 (1.2)	M8 x 1	L2

Connector



mm (in)		a	b	c	d	e	SW	LED
Nano Connector M8								
Ø 4	⑤	4 (0.16)	40 (1.6)	18 (0.7)	21 (0.8)	8 (0.31)	—	L1
Ø 5	⑥	5 (0.2)	40 (1.6)	18 (0.7)	21 (0.8)	8 (0.31)	M5 x 0.5	L1
Ø 6.5	⑤	6.5 (0.26)	60 (2.4)	39 (1.5)	50 (2.0)	8 (0.31)	—	L1
Ø 8	⑥	8 (0.31)	45 (1.8)	25 (1.0)	36 (1.4)	8 (0.31)	M8 x 1	L1
Micro Connector M12								
Ø 6.5	⑤	6.5 (0.26)	70 (2.9)	36 (1.4)	39 (1.5)	12 (0.47)	—	L1
Ø 8	⑥	8 (0.31)	50 (2.0)	40 (1.6)	25 (1.0)	12 (0.47)	M8 x 1	L2

