

# IP67 power supplies

## Cable selector guide



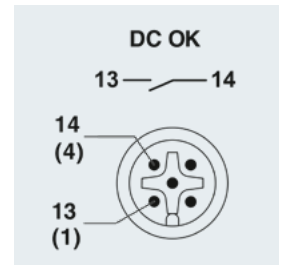
Phoenix Contact's portfolio of TRIO IP67 power supplies includes three different connection options: 7/8", M12, and Installation Power Distribution (IPD) input and output connections. These variations allow users to choose which connection technology best fits their individual application, with fast and standardized connectors that are coded to ensure the proper connection. Each TRIO IP67 power supply has a DC OK signal connection located in between the input and output.

Phoenix Contact offers an extensive cable portfolio which includes a broad range of IP67 offerings. The cable guide below was developed to help users select the correct Phoenix Contact cable that can be used with the corresponding Phoenix Contact IP67 power supply.

### Signal 24 V OK connection

Each of Phoenix Contact's IP67 power supplies have the same circular signal contact, which is located in between the input and output connectors of the power supply. This floating switch signal contact can be used to forward data to a higher-level control system. If the input voltage ( $0.55 \times ACN$ ) is undershot or the nominal output voltage  $U_{OUT}$  is  $<90\%$ , the switch contact (N/O contact 13/14) opens.

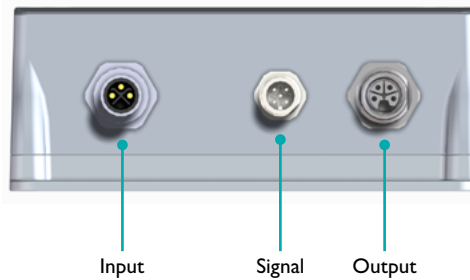
This signal contact only utilizes pins 1 and 4. A 3-position, 4-position, or 5-position female connector can be used for this connection. The following Phoenix Contact female cables are recommended with the signal connector on each of the IP67 TRIO power supplies.



# Wires	Configuration	0.5 m	1.5 m	2 m	3 m	5 m	10 m	15 m	20 m	CMAT
	Female Straight / Open End	-	-	1406324	-	1406323	1406322	1417956	1417957	1405958/.../...
	Female Straight / Male Straight	1406299	1406298	-	1417879	1417880	1417881	1417882	1417884	1405947/.../...
	Female Straight / Male 90°	1406319	1406309	-	-	-	-	-	-	1405953/.../...
	Female Straight / Open End	-	-	1406246	-	1406245	1406244	1417966	1417967	1405925/.../...
	Female Straight / Male Straight	1406221	1406220	-	1417890	1417891	1417892	1417893	1417894	1405914/.../...
	Female Straight / Male 90°	1406232	1406231	-	-	-	-	-	-	1405919/.../...
	Female Straight / Open End	-	-	1406169	-	1406168	1406167	1417974	1417975	1405892/.../...
	Female Straight / Male Straight	1406154	1406153	-	1417901	1417902	1417903	1417904	1417905	1405886/.../...
	Female Straight / Male 90°	1406161	1406160	-	-	-	-	-	-	1405889/.../...


Connector	Series	Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5
	3-position A-code	Brown	-	Blue	Black	-
	4-position A-code	Brown	White	Blue	Black	-
	5-position A-code	Brown	White	Blue	Black	Gray

### IP67 power with M12 connectors





Description	Part number	Input	Output voltage	Output current
TRIO-PS67/1AC/24DC/10/M12	1111634	Single-phase	24 V DC	10A


#### Input 100-240 V AC M12 power cable options (2+PE S-code):

Description	Cable	Shielded	Wire	1 m	2 m	5 m	10 m
 Female Straight / Open End	Black PVC	No	16 AWG	1411644	1411645	1411646	1411647


#### Output DC 24 V 10A M12 power cable options (4-position L-code):

Description	Cable	Wire	0.3 m	0.6 m	1.5 m	3 m	5 m	10 m
 Male Straight / Open End	Black PUR	14 AWG	-	-	1425065	1425066	1425067	1425068
		16 AWG	-	-	1425025	1425026	1425027	1425028
	Black PVC	14 AWG	-	-	1425085	1425086	1425087	1425088
		16 AWG	-	-	1425045	1425046	1425047	1425048
 Male Straight / Female Straight	Black PUR	14 AWG	1425081	1425082	1425083	1425084	-	-
		16 AWG	1425041	1425042	1425043	1425044	-	-
	Black PVC	14 AWG	1425101	1425102	1425103	1425104	-	-
		16 AWG	1425061	1425062	1425063	1425064	-	-

**Note:** The DC output connector of the TRIO-PS67/1AC/24DC/10/M12 – 1111634 is L-coded. The following cable is an L-coded to T-coded adapter cable.

Description	Part number
 SAC-4P-MSL/1.0-PUR/M12FST	1300101

#### AC input connector

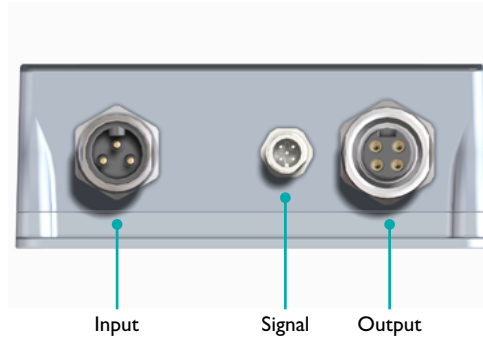
	Pos. 1	Pos. 2	Pos. 3
 Pin Out	L	PE	N
Color	Black	Grn/Ylw	Black

#### DC output connector

	Pos. 1	Pos. 2	Pos. 3	Pos. 4
 Pin Out	+	-	-	+
Color	Brown	White	Blue	Black




### IP67 power with 7/8" connections




Description	Part number	Input	Output voltage	Output current
TRIO-PS67/1AC/24DC/8/INC	1065976	Single-phase	24 V DC	8A

#### Input AC 100-240 V AC (110-250 V DC) MINI 7/8" cable options (3-position A-code):

# Wires	Configuration	18 AWG, [547] PVC				16 AWG, [U20] PVC			
		1 m	2 m	5 m	10 m	1 m	2 m	5 m	10 m
3 pos. 	Female Straight / Open End	1416465	1416549	1416550	1416552	1416508	1416776	1416777	1416778
	Female Straight / Male Straight	1416470	1416581	1416587	1416588	1416517	1416792	1416793	1416794
	Female Straight / Male 90°	1416467	1416560	1416561	1416563	1416511	1416782	1416783	1416784

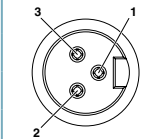
#### Output DC 24 V 8A MINI 7/8" cable options (4-position A-code):

# Wires	Configuration	18 AWG, [547] PVC				16 AWG, [U20] PVC			
		1 m	2 m	5 m	10 m	1 m	2 m	5 m	10 m
4 pos. 	Male Straight / Open End	1416477	1416618	1416621	1416623	1416551	1416810	1416811	1416812
	Male Straight / Female Straight	1416478	1416625	1416626	1416627	1416553	1416814	1416815	1416816

**Note:** Female connectors are integrated on power supply output

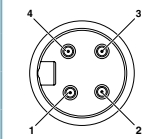
#### AC input connector

	Pos. 1	Pos. 2	Pos. 3
Pin Out	PE	L	N
18 AWG Signal	Black	Brown	Blue
16 AWG Signal	Green	Black	White

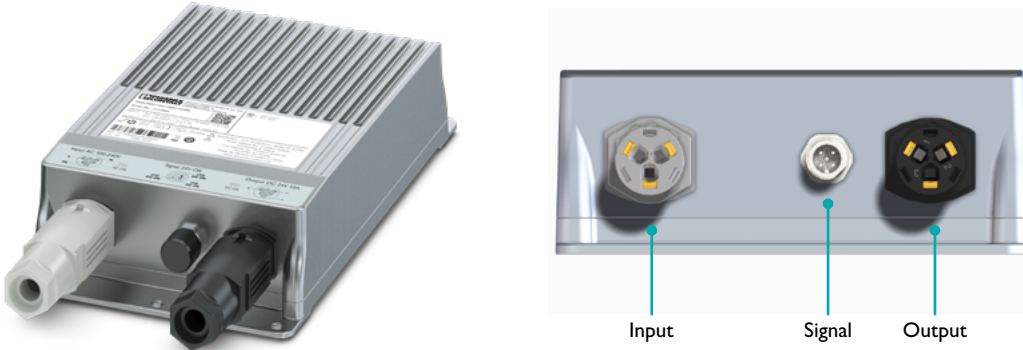


#### DC output connector

	Pos. 1	Pos. 2	Pos. 3	Pos. 4
Pin Out	-	-	+	+
18 AWG Signal	Brown	White	Blue	Black
16 AWG Signal	Black	White	Red	Green



## IP67 power with Installation Power Distribution (IPD) connections



Description	Part number	Input	Output voltage	Output current
TRIO-PS67/1AC/24DC/10/IPD	1111664	Single-phase	24 V DC	10A

The IP67 TRIO power supply that utilizes IPD connections is equipped with IPD connectors. The push-in terminals on the IPD connectors accept wire sizes from 20-14 AWG on both the AC input and DC output. The IPD connector is included with the purchase of the power supply. No additional connectors are required. The gland accepts cables with an outer diameter ranging from 6-13 mm.



Phoenix Contact offers M12 power reels that pair with the IPD connectors on the IP67 TRIO power supplies. The reels below can be used for both the AC and DC output.

Cable reel part #	Cable reel description		Contact	Pos. L	Pos. N	Pos. PE
1318677	SAC-3P-1.5-OE-OE-PVC-100.0-S		Contact	Pos. L	Pos. N	Pos. PE
			Contact	Pos. 1 (+)	Pos. 2 (-)	Pos. 3 (-)
			Wire	Black-1	Black-2	Green/Yellow