

### 3.6.2 Current Draw Worksheet for SK SLC Devices

Use to determine current requirements during alarm/battery standby operation SK SLC devices are installed. when SD SLC devices are installed. You can install up 99 SK detectors SD per loop (396 points max per panel) and 99 SK modules per loop (396 points max per panel). Copy this section if additional space is required.

Table 3-2 Current Draw Worksheet for SK SLC Devices

Device	# of Devices	Current per Device	Standby Current	Alarm Current		
For each device use this formula: This column X This column = Current per number of devices.						
Fire Panel (battery current draw)	1	Standby: 275 mA Alarm: 440 mA	275 mA	440 mA		
Addressable SLC Detectors						
SK-PHOTO	42  4  (99 max/loop & 396 max/panel) <sup>1</sup>	Standby/Alarm: .30 mA <sup>6</sup>	12.6 mA	mA		
SK-PHOTO-T			mA	mA		
SK-ION			mA	mA		
SK-HEAT			1.2 mA	mA		
SK-HEAT-HT			mA	mA		
SK-ACCLIMATE			mA	mA		
SK-HEAT-ROR			mA	mA		
SK-DUCT <sup>5</sup> (includes PhotoR)			mA	mA		
SK-BEAM (without integral test)			SLC	Standby/Alarm: 2 mA		
			Aux. Pwr	Standby: 2 mA Alarm: 8.5 mA	mA	mA
SK-BEAM-T <sup>4</sup> (with integral test)	SLC	Standby/Alarm: 2 mA				
	Aux. Pwr	Standby: 2 mA Alarm: 8.5 mA	mA	mA		
SK-FIRE-CO	SLC	Standby: .30mA Alarm: 7.2mA	mA	mA		

288.8 473.8

Device	# of Devices	Current per Device	Standby Current	Alarm Current	
Addressable SLC Modules					
SK-Monitor	3	Standby/Alarm: .375 mA	mA	mA	
SK-Minimon			1.13 mA	1.13 mA	
SK-Pull-SA			mA	mA	
SK-Pull-DA	13  (99 max/loop & 396 max/ panel) <sup>1</sup>	Standby/Alarm: .75 mA	4.89 mA	4.89 mA	
SK-Monitor-2			mA	mA	
SK-Mon-10		Standby/Alarm: 3.5 mA	mA	mA	
SK-Control		SLC	Standby: 2.25 mA	mA	
			Alarm: 2.25 mA		mA
		Aux Pwr	Standby: 1.7 mA	mA	
			Alarm: 7 mA		mA
SK-Control-6		SLC	Standby: 2.25 mA	mA	
			Alarm: 2.25 mA		
		Aux Pwr	Standby: 8 mA	mA	
			Alarm: 20 mA		mA
SK-Relay		Standby/Alarm: .255 mA	mA	mA	
SK-Relay-6		Standby/Alarm: 1.45 mA	mA	mA	
SK-Relaymon-2	SLC	Standby: 1.3 mA	mA		
		Alarm: 24 mA		mA	
	Aux Pwr	Standby 12 mA	mA		
		Alarm 90 mA		mA	
SK-Zone	SLC	Standby/Alarm .27 mA	mA	mA	
	Aux Pwr	Standby 50 mA	mA		
		Alarm 270 mA		mA	
SK-Zone-6	SLC	Standby/Alarm 2 mA	mA	mA	
	Aux Pwr	Standby: .50 mA	mA		
		Alarm: 35 mA		mA	
B200SR Sounder Base	SLC	Standby .30 mA	mA		
	Aux	Standby .50 mA	mA		
		Alarm (high vol) 35 mA		mA	
B200S Sounder Base	SLC	Standby .30 mA	mA		
	Aux	Standby .50 mA	mA		
		Alarm (high vol) 35 mA		mA	
B224RB Relay Base	Standby/Alarm: 0.5 mA	mA	mA		
RTS151/151 KEY	Alarm: 7.5 mA		mA		
RA100Z	Alarm: 10 mA		mA		
SK-Iso (Isolator Module)	(100 max/loop & 400 max/ panel)	Standby/Alarm: .45 mA	mA	mA	
B224BI Isolator Base		Standby/Alarm: .5 mA	mA	mA	
Accessories Modules					
5815XL SLC Expander	(3 max.)	Standby/Alarm: 55 mA	mA	mA	
5860 Remote Fire Alarm Annunciator	(8 max.)	Standby: 20 mA	mA		
		Alarm: 25 mA		mA	
5824 Serial/Parallel Printer Interface Module	(2 max.)	Standby/Alarm: 45 mA	mA	mA	
5496 Intelligent Power Module	(8 max.)	Standby/Alarm: 10 mA	mA	mA	
5895XL IntelliKnight Power Module		Standby/Alarm: 10 mA	mA	mA	

6.92 6.92

	Device	# of Devices	Current per Device	Standby Current	Alarm Current	
A	5865-4 LED Annunciator (with reset and silence switches)	(8 max.)	Standby:	35 mA	mA	
			Alarm:	145 mA		mA
	5865-3 LED Annunciator		Standby:	35 mA	mA	
			Alarm:	145 mA		mA
	5880 I/O Module		Standby:	35 mA	mA	
			Alarm:	200 mA		mA
	5883 Relay Interface	(32 max.)	Standby:	0 mA	mA	
			Alarm:	220 mA (22 mA per relay)		mA
	<b>Total System Current</b>				<b>295.72</b>	<b>480.72</b>
	Auxiliary Devices <sup>2</sup>		Refer to devices manual for current rating.			
			Alarm/Standby:	mA	mA	mA
			Alarm/Standby:	mA	mA	mA
		Alarm/Standby:	mA	mA	mA	
		Alarm/Standby:	mA	mA	mA	
<b>Auxiliary Devices Current</b>				<b>0</b>	<b>0</b>	
B	Notification Appliance Circuits		Refer to device manual for current rating.			
			Alarm:	1068 mA	1068 mA	
			Alarm:	1312 mA	1312 mA	
			Alarm:	2334 mA	2334 mA	
			Alarm:	mA	mA	
<b>Notification Appliances Current</b>				<b>3714 mA</b>		
C	Total current ratings of all devices in system (line A + line B + C)			<b>296 mA</b>	<b>4195 mA</b>	
D	Total current ratings converted to amperes (line D x .001):			<b>.296 A</b>	<b>4.195 A</b>	
E	Number of standby hours:			<b>24 H</b>		
F	Multiply lines E and F. <b>Total standby AH</b>			<b>7.11 AH</b>		
G	Alarm sounding period in hours. (For example, 5 minutes = .0833 hours)				<b>.766 H</b>	
H	Multiply lines E and H. <b>Total alarm AH</b>				<b>.7 AH</b>	
I	Add lines G and I. <sup>3</sup> <b>Total ampere hours required</b>			<b>7.71 AH</b>		
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- Total does not include isolator devices or accessory bases.
- If using door holders, you do not need to consider door holder current for alarm/battery standby, because power is removed during that time. However, during normal operation, door holders draw current and must be included in the 6.0A total current that can be drawn from the panel.
- Use next size battery with capacity greater than required.
- SK-Beam-T draws a maximum of 500mA from Auxiliary power only when the test feature is used. this should be considered when determining auxiliary power capacity but not calculated into current requirements for day to day operation.
- The SK-Duct housing contains a vacant mount for a SK-Relay (sold separately). Current draw for the SK-Relay is calculated by increasing the SK-Relay row of the calculation sheet by one for each SK-Relay used with a SK-Duct.