

Battery capacity calculation table FX / Intellia

Product Codes			Pcs	Standby current mA	Alarm current mA	Standby current mA	Alarm current mA	
See Comm.	Panels and options	FX, FXL and FXM (incl. MC and UI)	2	65	1 05	1 30	2 10	
00703810		FXS (incl. MC and UI)	0	60	1 00	0	0	
See Comm.		FX, FXL and FXM (incl. MC2 and UI2)	0	1 35	1 71	0	0	
00703814		FXS (incl. MC2 and UI2)	0	1 25	1 61	0	0	
00702515		ALCA	0	54	54	0	0	
00702517		ALCB	6	78	78	4 68	4 68	
00702512		CLC	0	20	20	0	0	
		current consumption/line	-EOL 4,7kΩ	0	5,6	60	0	0
			-EOL 2,94kΩ	0	8,1	60	0	0
			-normally closed contact	0	15,6	60	0	0
00702530			IOC	0	20	20	0	0
00702531			OCA	0	3	3	0	0
00702520			SAA	0	20	20	0	0
00702521			SAB	0	40	40	0	0
00702522			SAC	0	60	60	0	0
00703833			REPX-OB	0	40	40	0	0
00703835			MCOX-OB	0	40	40	0	0
00702541		Current of 1 LED is ~1mA, in this calculation it is assumed that there is fire indicated in one FX panel	FX-LB32	0	1	2	0	0
00702542		Current of 1 LED is ~1mA, in this calculation it is assumed that there is fire indicated in one zone	FX-LB80	0	1	2	0	0
00409910			CFD-900	0	75	1 20	0	0
Total, Panels and options						5 98	6 78	
00396010	Devices that are powered from the FX panel	FMP	0	22	42	0	0	
00703831		FMPX	0	40	75	0	0	
00392200		MCO	0	25	25	0	0	
00703834		MCOX	0	50	50	0	0	
00392100		REP	0	25	25	0	0	
00703832		REPX	0	50	50	0	0	
06431220		MPO	0	1 15	1 15	0	0	
06432501		IAS1	0	3 00	3 00	0	0	
00703840		50 LEDs on at the same time, other configurations should be calculated separately	ZLPX	0	50	72	0	0
		Other devices eg. Fire transmitter – conv fire alarm devices...		0	0	0	0	0
			0	0	0	0	0	
			0	0	0	0	0	
Total, External devices						0	0	
Detectors								
06720210	Ion smoke detector	EDI-10		0,5	(3,5)*	0,0	0,0	
06720220	Optical smoke detector	EDI-20	0	0,4	(3,4)*	0,0	0,0	
06720230	Photo -thermal detector	EDI-30	210	0,5	(3,5)*	1 05,0	105,0	
06720250	Thermal detector	EDI-50	3	0,5	(3,5)*	1,5	1,5	
06720260	CO detector	EDI-60	0	0,5	(3,5)*	0,0	0,0	
06720262	Configurable Carbon Monoxide Heat Multisensor	58000-305APO	0	0,5	(3,5)*	0,0	0,0	
06720011	Short circuit isolator base	EBI-11	0	0,4	(4,0)*	0,0	0,0	
06725283	Base Mounted Flame Detector UV	55000-022APO	0	2,3	4,2	0,0	0,0	
06725284	Base Mounted Flame Detector UV/Dual IR	55000-023APO	0	2,8	4,2	0,0	0,0	
06725285	Base Mounted Flame Detector Triple IR	55000-024APO	0	2,5	4,2	0,0	0,0	
06725270	Beam detector	55000-268APO	0	5,0	(9,0)*	0,0	0,0	
06725271	Beam detector	55000-273APO	0	5,0	(9,0)*	0,0	0,0	
06725280	Flame detector	55000-280APO	0	2,2	(4,2)*	0,0	0,0	
Call points								
06723732	Manual call point, with isolator	EPP-20	15	0,3	(5,0)*	0,0	0,0	
06723735	Manual call point, with isolator	EPP-21	0	0,3	(5,0)*	0,0	0,0	
Alarm devices								
06728010	Base sounder	ESI-10 (85dB)	0	0,1	3,0	0,0	0,0	
		ESI-10 (70dB)	0	0,1	1,3	0,0	0,0	
06728020	Addressable base sounder, with isolator	ESI-20 (91dB)	0	0,3	5,0	0,0	0,0	
		ESI-20 (78dB)	0	0,3	2,1	0,0	0,0	
06728030	Addressable base sounder	ESI-30 (91dB)	0	0,3	5,0	0,0	0,0	
		ESI-30 (78dB)	0	0,3	2,1	0,0	0,0	
06728040	Addressable sounder (100dB)	ESI-40 (100dB)	0	1,2	5,0	0,0	0,0	
		ESI-40 (92dB)	0	1,2	3,1	0,0	0,0	
06728050	Addressable sounder (100dB)	ESI-50 (100dB)	0	1,2	5,0	0,0	0,0	
		ESI-50 (92dB)	0	1,2	3,1	0,0	0,0	
06728106	Addressable sounder (92/100dB)	ESI-52 (92/100dB)	0	0,3	5,0	0,0	0,0	
06728107	Addressable sounder beacon (92/100dB)	ESI-53 (92/100dB)	0	0,3	8,0	0,0	0,0	
06728107	Addressable beacon	ESI-54	0	0,3	3,1	0,0	0,0	
06728060	Sounder strobe, with isolator	ESI-60 (91dB)	0	0,3	8,0	0,0	0,0	
		ESI-60 (78dB)	0	0,3	2,1	0,0	0,0	
06728070	Sounder strobe	ESI-70 (91dB)	0	0,3	8,0	0,0	0,0	
		ESI-70 (78dB)	0	0,3	2,1	0,0	0,0	
06728080	Beacon base	ESI-80	0	0,2	3,0	0,0	0,0	
06728118	Configurable Open area sounder beacon	Volume level 7 (100dB(A))	0	0,5	8,5	0,0	0,0	
06728117	Configurable Sounder beacon base	Volume level 7 (90dB(A))	0	0,4	8,5	0,0	0,0	
Control and monitoring devices, Surface mount models								
06727310	Monitor module, 1 input	EMI-310	0	1,0	(4,0)*	0,0	0,0	

06727340	Monitor module, 1 input	EMI-310+	0	1,0	(4,0)*	0,0	0,0	
06727341	Conventional zone module	EMI-310/CZ	0	6,0	21,0	0,0	0,0	
06727311	Control module, 1 input, 1 output	EMI-311	24	1,3	(5,5)*	30,0	30,0	
06727361	240V Relay control unit	EMI-311/240	0	1,5	5,0	0,0	0,0	
06727301	Control module, 1 output	EMI-301	0	0,4	1,8	0,0	0,0	
06727351	Sounder control module	EMI-301/S	0	1,7	50,0	0,0	0,0	
06727372	Mini control module, 1 input	Mini Switch Monitor	0	0,2	(6,4)*	0,0	0,0	
06727333	I/O module, 1 input, 1 output (3 relay contacts in parallel)	EMI-333	0	3,0	(7,5)*	0,0	0,0	
	Control and monitoring devices, DIN-rail models							
06727400	Isolator module, 2 isolators	EMI-400	0	0,5	4,0	0,0	0,0	
06727410	Monitor module, 1 input	EMI-410	0	0,7	(3,4)*	0,0	0,0	
06727440	Control module, 1 input	EMI-410+	0	1,0	(5,6)*	0,0	0,0	
06727441	Conventional zone module	EMI-410/CZ	0	6,0	21,0	0,0	0,0	
06727411	I/O module, 1 input, 1 output	EMI-411	0	1,2	(6,0)*	0,0	0,0	
06727401	Control module, 1 output	EMI-401	0	0,7	3,3	0,0	0,0	
06727451	Sounder control module	EMI-401/S	0	1,9	50,0	0,0	0,0	
	Xpander Wireless							
06726023	Xpander Loop Interface (31 addresses)	Xpander	0	15,0	15,0	0	0	
06720601	Remote LED (output from detector limited to 5mA)	ERI-10	105	0	5,0	0	25	
	Device LED alarm current (max 5 devices with LEDs on at the same time)*						17,5	
	Total number of field devices		357					
	Loop components in total						1 37	1 79
	Current consumption in total						7 35	8 57
	Battery capacity = (L1 x T1 + L2 x T2) x 1,25 Ah							
	L1 = Standby current	0,7 A	Battery capacity				46,4 Ah	
	T1 = Battery backup time	50 h	Charge time (hours)				12,3 h	
	L2 = Alarm device current	0,9 A	Chosen Battery capacity				68,0 Ah	
	T2 = Alarm time	0,5 h	Backup time with chosen batteries				73,5 h	
			(Actual standby time)					

Battery capacity OK