

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					
00703810	FX, FXL and FXM (incl. MC and UI)	1	65	1 05	65	1 05
See Comm.	FXS (incl. MC and UI)	0	60	1 00	0	0
00703814	FX, FXL and FXM (incl. MC2 and UI2)	0	1 35	1 71	0	0
00702515	FXS (incl. MC2 and UI2)	0	1 25	1 61	0	0
00702517	ALCA	0	54	54	0	0
00702512	ALCB	3	78	78	2 34	2 34
	CLC	0	20	20	0	0
	-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	MC0X-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				2 99	3 39
00396010	Devices that are powered from the FX panel					
00703831	FMP	0	22	42	0	0
00392200	FMPX	0	40	75	0	0
00703834	MCO	0	25	25	0	0
00392100	MC0X	0	50	50	0	0
00703832	REP	0	25	25	0	0
06431220	REPX	0	50	50	0	0
06432501	MPO	0	1 15	1 15	0	0
00703840	IAS1	0	3 00	3 00	0	0
	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	0	0,5	(3,5)*	0,0	0,0
06720220	Optical smoke detector	391	0,4	(3,4)*	1 56,4	156,4
06720230	Photo -thermal detector	0	0,5	(3,5)*	0,0	0,0
06720250	Thermal detector	45	0,5	(3,5)*	22,5	22,5
06720260	CO detector	0	0,5	(3,5)*	0,0	0,0
06720262	Configurable Carbon Monoxide Heat Multisensor	0	0,5	(3,5)*	0,0	0,0
06720011	Short circuit isolator base	25	0,4	(4,0)*	10,0	10,0
06725283	Base Mounted Flame Detector UV	0	2,3	4,2	0,0	0,0
06725284	Base Mounted Flame Detector UV/Dual IR	0	2,8	4,2	0,0	0,0
06725285	Base Mounted Flame Detector Triple IR	0	2,5	4,2	0,0	0,0
06725270	Beam detector	0	5,0	(9,0)*	0,0	0,0
06725271	Beam detector	0	5,0	(9,0)*	0,0	0,0
06725280	Flame detector	0	2,2	(4,2)*	0,0	0,0
	Call points					
06723732	Manual call point, with isolator	0	0,3	(5,0)*	0,0	0,0
06723735	Manual call point, with isolator	40	0,3	(5,0)*	12,0	12,0
	Alarm devices					
06728010	Base sounder	0	0,1	3,0	0,0	0,0
	ESI-10 (85dB)	0	0,1	1,3	0,0	0,0
06728020	Addressable base sounder, with isolator	0	0,3	5,0	0,0	0,0
	ESI-20 (91dB)	0	0,3	2,1	0,0	0,0
06728030	Addressable base sounder	0	0,3	5,0	0,0	0,0
	ESI-30 (91dB)	0	0,3	2,1	0,0	0,0
06728040	Addressable sounder (100dB)	0	1,2	5,0	0,0	0,0
	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))	1	0,5	8,5	0,5	8,5
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	0	1,3	(5,5)*	0,0	0,0
06727361	240V Relay control unit	EMI-311/240	9	1,5	5,0	13,5	45,0
06727301	Control module, 1 output	EMI-301	1	0,4	1,8	0,4	1,8
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	0	0	5,0	0	0
Device LED alarm current (max 5 devices with LEDs on at the same time)*							17,5
Total number of field devices			512				
Loop components in total						2 15	2 74
Current consumption in total						5 14	6 13
Battery capacity = (L1 x T1 + L2 x T2) x 1,25 Ah							
L1 = Standby current		0,5 A	Battery capacity			19,7 Ah	
T1 = Battery backup time		30 h	Charge time (hours)			4,9 h	
L2 = Alarm device current		0,6 A	Chosen Battery capacity			34,0 Ah	
T2 = Alarm time		0,5 h	Backup time with chosen batteries			52,3 h	
(Actual standby time)							

Battery capacity OK