

"QUALITY PUMPS SINCE 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER
PUMP CO.



SECTION:4.10.025

FM1705

0207

Supersedes

0306

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CONTROL PANELS FOR EXPLOSION PROOF PUMPS SIMPLEX AND DUPLEX WITH INTRINSICALLY SAFE RELAYS

These intrinsically safe control panels are used on pump applications defined as a hazardous duty location. Lift stations in some regions fall under this classification. The intrinsically safe panel, in conjunction with an explosion proof pump, will provide a system that will not allow ignition of the explosive gases. The purpose of the control panel is to cycle a pump automatically. Each panel comes standard with pump run light(s), a high water audible and visual alarm, seal fail indicator(s), and a UL Listing. All panels come standard with a NEMA 4X rating for indoor or outdoor use.

These panels MUST NOT be in the space classified as needing explosion proof equipment. Special fittings that either prevent the passage of hot gases, in the case of an explosion in a Class I area or the passage of combustible dust, fibers, or flyings in a Class II or III area (NEC 501-5 and 502-5), are required. A qualified electrician must install all electrical systems. National Electrical Code (NEC) Articles 500 through 503 explain in detail the requirements for the installation of wiring or electrical equipment in hazardous locations. These articles along with other applicable regulations, local governing inspection authorities, insurance representatives, and qualified engineering/technical assistance should be your guides to the installation of wiring or electrical equipment in any hazardous or potentially hazardous location.

Control Panel Features:

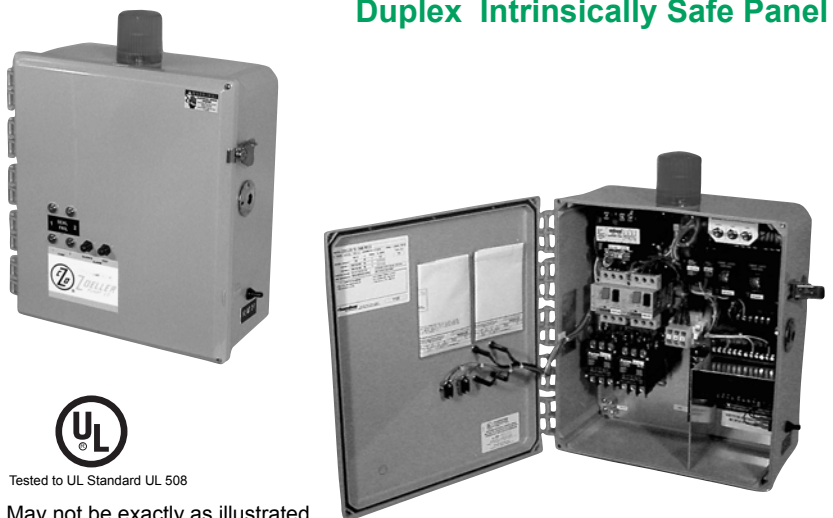
- Intrinsically safe relays.
- NEMA 4X enclosure.
- Top mounted alarm light.
- Hand-Off-Auto Toggle Switch for each pump.
- UL Listed.
- Alarm horn with silence switch.
- Magnetic motor contactor.
- Lockable Latch.
- Auxiliary Dry Contact/High Water Alarm.
- Circuit breaker pump disconnect.
- 3 or 4 variable float switch control operation (see FM0526).
- 2 year warranty.
- The use of off-the-shelf components provide for relatively easy field maintenance and repair.
- Green pump run pilot light for each pump.
- Seal fail indicator light(s).
- Thermal cutouts for 3 Phase.
- Duplex only - Lead/Lag alternating circuit.
- For additional information refer to FM1596 (Simplex), FM0486 (Duplex), or consult the factory representative.

Simplex Intrinsically Safe Panel



Tested to UL Standard UL 508

Duplex Intrinsically Safe Panel



Tested to UL Standard UL 508

May not be exactly as illustrated

SIMPLEX / DUPLEX PANELS RECOMMENDED FOR PUMPS WITH EXPLOSION PROOF MOTORS

PUMP DATA					CONTROL PANEL	
MODEL #	VOLT	PHASE	AMPS	HP	SIMPLEX	DUPLEX
NX161	115	1	15.5	0.5	10-1294	10-1233
EX161	230	1	7.5	0.5	10-1242	10-1297
IX161	200-208	1	8.8	0.5	10-1242	10-1297
JX161	200-208	3	6.4	0.5	10-1222	10-1228
FX161	230	3	5.2	0.5	10-1218	10-1224
GX161	460	3	2.9	0.5	10-1219	10-1225
NX163	115	1	15.0	0.5	10-1242	10-1297
EX163	230	1	7.5	0.5	10-1242	10-1297
IX163	200-208	1	8.5	0.5	10-1242	10-1297
JX163	200-208	3	6.0	0.5	10-1218	10-1224
FX163	230	3	4.8	0.5	10-1218	10-1224
GX163	460	3	2.9	0.5	10-1219	10-1225
EX165	230	1	10.2	1.0	10-1242	10-1297
IX165	200-208	1	12.6	1.0	10-1242	10-1297
JX165	200-208	3	7.5	1.0	10-1222	10-1228
FX165	230	3	7.4	1.0	10-1222	10-1228
GX165	460	3	3.7	1.0	10-1220	10-1226
EX185	230	1	9.8	1.0	10-1242	10-1297
IX185	200-208	1	11.5	1.0	10-1242	10-1297
JX185	200-208	3	7.5	1.0	10-1222	10-1228
FX185	230	3	7.4	1.0	10-1222	10-1228
GX185	460	3	3.7	1.0	10-1220	10-1226
EX186	230	1	13.7	1.5	10-1242	10-1297
FX186	230	3	8.6	1.5	10-1222	10-1228
GX186	460	3	4.6	1.5	10-1218	10-1224
EX188	230	1	14.0	1.5	10-1242	10-1297
IX188	200-208	1	16.8	1.5	10-1294	10-1233
JX188	200-208	3	10.3	1.5	10-1229	10-1231
FX188	230	3	8.9	1.5	10-1222	10-1228
GX188	460	3	4.6	1.5	10-1218	10-1224
BAX188	575	3	3.5	1.5	10-1250	10-1256
EX189	230	1	16.6	2.0	10-1294	10-1233
IX189	200-208	1	20.5	2.0	10-1295	10-1235
JX189	200-208	3	13.2	2.0	10-1230	10-1232
FX189	230	3	11.2	2.0	10-1229	10-1231
GX189	460	3	6.0	2.0	10-1218	10-1224
BAX189	575	3	5.8	2.0	10-1252	10-1258
EX191	230	1	14.5	2.0	10-1242	10-1297
NX282	115	1	10.3	0.5	10-1242	10-1297
EX282	230	1	5.0	0.5	10-1241	10-1296
IX282	200-208	1	6.1	0.5	10-1241	10-1296
JX282	200-208	3	3.6	0.5	10-1220	10-1226
FX282	230	3	3.0	0.5	10-1219	10-1225
GX282	460	3	1.7	0.5	10-1244	10-1246
EX284	230	1	8.9	1.0	10-1242	10-1297
IX284	200-208	1	9.3	1.0	10-1242	10-1297
JX284	200-208	3	5.5	1.0	10-1218	10-1224
FX284	230	3	5.0	1.0	10-1218	10-1224
GX284	460	3	2.6	1.0	10-1219	10-1225
NX292	115	1	15.0	0.5	10-1242	10-1297
EX293	230	1	10.2	1.0	10-1242	10-1297
IX293	200-208	1	12.0	1.0	10-1242	10-1297
JX293	200-208	3	8.2	1.0	10-1222	10-1228
FX293	230	3	7.6	1.0	10-1222	10-1228
GX293	460	3	4.0	1.0	10-1218	10-1224
BAX293	575	3	3.3	1.0	10-1250	10-1256

PUMP DATA					CONTROL PANEL	
MODEL #	VOLT	PHASE	AMPS	HP	SIMPLEX	DUPLEX
EX294	230	1	13.7	1.5	10-1242	10-1297
IX294	200-208	1	16.5	1.5	10-1294	10-1233
JX294	200-208	3	10.8	1.5	10-1229	10-1231
FX294	230	3	9.5	1.5	10-1222	10-1228
GX294	460	3	4.8	1.5	10-1218	10-1224
BAX294	575	3	3.8	1.5	10-1250	10-1256
EX295	230	1	16.6	2.0	10-1294	10-1233
IX295	200-208	1	20.5	2.0	10-1295	10-1235
JX295	200-208	3	14.3	2.0	10-1230	10-1232
FX295	230	3	12.2	2.0	10-1229	10-1231
GX295	460	3	6.1	2.0	10-1222	10-1228
BAX295	575	3	4.9	2.0	10-1252	10-1258
EX404	230	1	12.9	3.0	10-1242	10-1297
IX404	200	1	14.4	3.0	10-1242	10-1297
JX404	200	3	13.8	3.0	10-1230	10-1232
FX404	230	3	13.1	3.0	10-1230	10-1232
GX404	460	3	5.2	3.0	10-1218	10-1224
BAX404	575	3	4.1	3.0	10-1252	10-1258
EX405	230	1	19.0	3.0	10-1294	10-1233
IX405	200	1	20.2	3.0	10-1295	10-1235
JX405	200	3	14.8	3.0	10-1230	10-1232
FX405	230	3	12.2	3.0	10-1229	10-1231
GX405	460	3	6.1	3.0	10-1222	10-1228
BAX405	575	3	4.8	3.0	10-1251	10-1257
EX611	230	1	6.9	1.0	10-1559	10-1587
JX611	200	3	4.3	1.0	10-1560	10-1588
FX611	230	3	3.7	1.0	10-1561	10-1589
GX611	460	3	1.9	1.0	10-1562	10-1590
BAX611	575	3	1.6	1.0	10-1563	10-1591
EX621	230	1	8.9	1.5	10-1564	10-1592
JX621	200	3	5.9	1.5	10-1560	10-1588
FX621	230	3	5.1	1.5	10-1560	10-1588
GX621	460	3	2.6	1.5	10-1561	10-1589
BAX621	575	3	2.0	1.5	10-1563	10-1591
EX631	230	1	12.0	2.0	10-1573	10-1601
JX631	200	3	7.8	2.0	10-1565	10-1593
FX631	230	3	6.8	2.0	10-1565	10-1593
GX631	460	3	3.4	2.0	10-1561	10-1589
BAX631	575	3	2.7	2.0	10-1566	10-1594
EX641	230	1	17.0	3.0	10-1567	10-1595
JX641	200	3	11.0	3.0	10-1568	10-1596
FX641	230	3	9.6	3.0	10-1568	10-1596
GX641	460	3	4.8	3.0	10-1560	10-1588
BAX641	575	3	3.9	3.0	10-1566	10-1594
EX651	230	1	28.0	5.0	10-1569	10-1597
JX651	200	3	17.5	5.0	10-1570	10-1598
FX651	230	3	15.2	5.0	10-1571	10-1599
GX651	460	3	7.6	5.0	10-1565	10-1593
BAX651	575	3	6.1	5.0	10-1572	10-1600
JX661	200	3	25.3	7.5	10-1577	10-1605
FX661	230	3	22.0	7.5	10-1575	10-1603
GX661	460	3	11.0	7.5	10-1568	10-1596
BAX661	575	3	9.0	7.5	10-1576	10-1604

Standard Enclosure Dimensions

Panel	Phase	Dimensions H x W x D (in)
Simplex	1	16 x 14 x 6
Duplex	1	16 x 14 x 6
Simplex	3	16 x 14 x 6
Duplex	3	16 x 14 x 6