10

Section 10   Fire Alarm Systems

Fire Alarm Systems

Fire Alarm Shielded Plenum

BELDEN

Power limited fire alarm and communications cable for plenum applications. Fire alarm, smoke detectors, signaling, fire protective circuits.

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Flamarrest
3. SHIELD: Beldfoil shield with a drain wire
4. JACKET: Red Flamarrest with ripcord
5. STANDARDS: NEC FPLP, UL Listed
6. TEMPERATURE: 75°C

Technical Information & Standards

FPLP, UL Listed

Anixter No.	Vendor No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6020FL	6020FL	12	2	0.011	0.015	0.246	61
B6120FL	6120FL	14	2	0.011	0.015	0.212	45
B6122FL	6122FL	14	4	0.011	0.015	0.248	77
B6220FL	6220FL	16	2	0.010	0.015	0.181	31
B6222FL	6222FL	16	4	0.010	0.015	0.211	54
B6320FL	6320FL	18	2	0.010	0.015	0.158	22
B6322FL	6322FL	18	4	0.010	0.015	0.183	37

Fire Alarm Shielded Nonplenum

BELDEN

Power limited fire alarm and communications cable for riser and conduit applications. Fire alarm, smoke detectors, signaling, fire protective circuits.

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: PVC or PP
3. SHIELD: Beldfoil shield with a drain wire
4. JACKET: Red PVC with ripcord
5. STANDARDS: NEC FPLR, UL Listed
6. TEMPERATURE: 75°C

Technical Information & Standards

FPLR, UL Listed

Anixter No.	Vendor No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5020FL	5020FL	12	2	0.013	0.015	0.251	60
B5120FL	5120FL	14	2	0.013	0.015	0.217	43
B5122FL	5122FL	14	4	0.013	0.015	0.255	79
B5220FL	5220FL	16	2	0.010	0.015	0.178	29
B5222FL	5222FL	16	4	0.010	0.015	0.208	50
B5320FL	5320FL	18	2	0.010	0.015	0.155	22
B5322FL	5322FL	18	4	0.010	0.015	0.170	34
B5522FL	5522FL	22	4	0.010	0.015	0.145	19

Belden

Fire Alarm Nonshielded Plenum

BELDEN
Power limited fire alarm and communications cable for plenum applications. Fire alarm, smoke detectors, signaling, fire protective circuits.

SPECIFICATIONS
1. CONDUCTOR: Solid bare copper
2. INSULATION: Flamarrest
3. JACKET: Red Flamarrest with ripcord
4. STANDARDS: NEC FPLP, UL Listed
5. TEMPERATURE: 75°C

Technical Information & Standards
FPLP, UL Listed

Anixter No.	Vendor No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6020UL	6020UL	12	2	0.011	0.015	0.239	55
B6120UL	6120UL	14	2	0.011	0.015	0.205	38
B6122UL	6122UL	14	4	0.011	0.015	0.241	70
B6220UL	6220UL	16	2	0.010	0.015	0.174	26
B6222UL	6222UL	16	4	0.010	0.015	0.204	47
B6320UL	6320UL	18	2	0.010	0.015	0.151	17
B6322UL	6322UL	18	4	0.010	0.015	0.176	31
B6324UL	6324UL	18	6	0.010	0.015	0.211	46
B6522UL	6522UL	22	4	0.009	0.015	0.136	16
B6326UL	6326UL	18	8	0.010	0.015	0.230	59

Fire Alarm Nonshielded Nonplenum

BELDEN
Power limited fire alarm and communications cable for riser or non-riser applications. Fire alarm, smoke detectors, signaling, fire protective circuits.

SPECIFICATIONS
1. CONDUCTOR: Solid bare copper
2. INSULATION: PVC or PP
3. JACKET: Red PVC with ripcord
4. STANDARDS: NEC FPLR, UL Listed
5. TEMPERATURE: 75°C

Technical Information & Standards
FPLR, UL Listed

Anixter No.	Vendor No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5020UL	5020UL	12	2	0.013	0.015	0.247	54
B5120UL	5120UL	14	2	0.013	0.015	0.213	38
B5122UL	5122UL	14	4	0.013	0.015	0.251	70
B5220UL	5220UL	16	2	0.010	0.015	0.174	25
B5222UL	5222UL	16	4	0.010	0.015	0.204	45
B5320UL	5320UL	18	2	0.010	0.015	0.151	17
B5322UL	5322UL	18	4	0.010	0.015	0.176	30
B5324UL	5324UL	18	6	0.010	0.015	0.211	44
B5326UL-500	5326UL	18	8	0.010	0.015	0.230	57
B5522UL	5522UL	22	4	0.010	0.015	0.125	15

Safe-T-Line Circuit Integrity (CI) Nonshielded FPLR-CI

BELDEN

Circuit Integrity cable for riser applications, non-conduit and nonplenum. Two hour rated fire alarm, notification devices, signaling, fire protective circuits. Two hour direct flame cables for survivability requirements according to NFPA101. Zero halogen cables.

SPECIFICATIONS

1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI). NEC-FPLR-CI. UL Standard 2196
2. CONDUCTOR: Bare copper solid conductors
3. INSULATION: Thermoset elastomer insulation
4. JACKET: Red polyolefin
5. STANDARDS: FPLR-CI, UL Listed

Technical Information & Standards

FPLR-CI, UL 2196 Listed

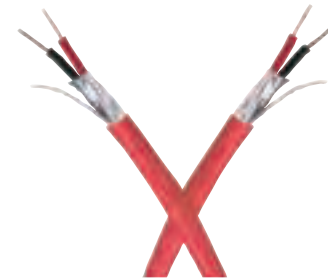| Anixter No.	Vendor No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5320UM	5320UM 0021000	18	Solid	2	0.034	0.308	47
B5220UM	5220UM 0021000	16	Solid	2	0.034	0.33	59
B5120UM	5120UM 0021000	14	Solid	2	0.034	0.360	73
B5020UM	5020UM 0021000	12	Solid	2	0.034	0.392	96

Safe-T-Line Circuit Integrity (CI) Shielded FPLR-CI

BELDEN

Circuit Integrity cable for riser applications, non-conduit and nonplenum. Fire alarm, notification devices, signaling, fire protective circuits. Two hour direct flame cables for survivability requirements according to NFPA101. Zero halogen cables.

SPECIFICATIONS

1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI). NEC-FPLR-CI. UL Standard 2196
2. CONDUCTOR: Bare copper stranded and solid conductors
3. INSULATION: Thermoset elastomer insulation
4. SHIELDING: Corrosion resistant Beldfoil shield 100 percent coverage with tinned copper drain wire
5. JACKET: Red polyolefin
6. STANDARDS: FPLR-CI, UL Listed

Technical Information & Standards

FPLR-CI, UL 2196 Listed

Anixter No.	Vendor No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5320FM	5320FM 0021000	18	Solid	2	0.034	0.314	50
B5220FM	5220FM 0021000	16	Solid	2	0.034	0.331	66
B5120FM	5120FM 0021000	14	Solid	2	0.034	0.360	84
B5100FM	5100FM 0021000	14	7 x 22	2	0.034	0.384	93
B5020FM	5020FM 0021000	12	Solid	2	0.034	0.392	112
B5000FM	5000FM 0021000	12	7 x 20	2	0.034	0.417	117

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10.3

Belden

Safe-T-Line Circuit Integrity in Conduit (CIC) Nonshielded FPLR and UL FHIT.30 Electrical Circuit Protective Systems

BELDEN

Circuit Integrity cable for in-conduit applications. Two hour rated fire alarm, notification devices, signaling, fire protective circuits. Two hour in-conduit cables for survivability requirements according to NFPA101. Zero halogen cables.

SPECIFICATIONS
1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI). NEC-FPLR. UL Standard 2196
2. CONDUCTOR: Bare copper solid conductors
3. INSULATION: Thermoset elastomer insulation
4. JACKET: Red polyolefin
5. STANDARDS: FPLR, UL Listed. UL 2196 for Circuit Integrity In Conduit, UL Electrical Circuit Protective Systems FHIT #30.

Technical Information & Standards
FPLR, UL 2196 Listed for use in conduits

Anixter No.	Vendor No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Nominal O.D. (in.)
B5220UZ	5220UZ 0021000	16	Solid	2	0.35
B5120UZ	5120UZ 0021000	14	Solid	2	0.38
B5020UM	5020UM 0021000	12	Solid	2	0.392

Safe-T-Line Circuit Integrity In Conduit (CIC) Shielded FPLR and UL FHIT.30 Electrical Circuit Protective Systems

BELDEN

Circuit Integrity cable for in conduit applications. Fire alarm, notification devices, signaling, fire protective circuits. Two hour direct flame cables for survivability requirements according to NFPA101. Zero halogen cables.

SPECIFICATIONS
1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI) in conduit. NEC-FPLR. UL Standard 2196
2. CONDUCTOR: Bare copper stranded and solid conductors
3. INSULATION: Thermoset elastomer insulation
4. SHIELDING: Corrosion resistant Beldfoil shield 100 percent coverage with tinned copper drain wire
5. JACKET: Red polyolefin
6. STANDARDS: FPLR UL Listed, UL Electrical Circuit Protective Systems FHIT #30.

Technical Information & Standards
FPLR-CI, UL 2196 Listed

Anixter No.	Vendor No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Nominal O.D. (in.)
B5220FZ	5220FZ 0021000	16	Solid	2	0.360
B5120FZ	5120FZ 0021000	14	Solid	2	0.380
B5020FZ	5020FZ 0021000	12	Solid	2	0.420

Fire Alarm Shielded Plenum

Power limited fire alarm and communications cable for riser or non-riser applications. Fire alarm, smoke detectors, signaling, fire protective circuits. XX in part number denotes color, call your salesperson for specific requirements.

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: FRPVC
3. SHIELD: Overall foil shield
4. JACKET: FRPVC with ripcord
5. STANDARDS: NEC FPLP, UL Listed
6. TEMPERATURE: 75°C

Technical Information & Standards
FRPVC
Solid conductor
FPLP, UL Listed

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-2S-XX	12	2	0.011	0.015	0.246	73
FA-1402C-1-2S-XX	14	2	0.011	0.015	0.212	45
FA-1404C-1-2S-XX	14	4	0.011	0.015	0.248	76
FA-1602C-1-2S-XX	16	2	0.010	0.015	0.181	32
FA-1604C-1-2S-XX	16	4	0.010	0.015	0.211	52
FA-1802C-1-2S-XX	18	2	0.010	0.015	0.158	23
FA-1804C-1-2S-XX	18	4	0.010	0.015	0.183	38

Fire Alarm Shielded Nonplenum

Power limited fire alarm and communications cable for riser or non-riser applications. Fire alarm, smoke detectors, signaling, fire protective circuits. XX in part number denotes color, call your local sales representative for specific requirements.

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: PVC
3. SHIELD: Overall foil shield
4. JACKET: PVC with ripcord
5. STANDARDS: NEC FPLR, UL Listed
6. TEMPERATURE: 75°C

Technical Information & Standards
PVC
Solid or stranded conductor
FPLR, UL Listed

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-1S-XX	12	2	0.011	0.015	0.239	64
FA-1402C-1-1S-XX	14	2	0.011	0.015	0.205	41
FA-1602C-1-1S-XX	16	2	0.010	0.015	0.178	29
FA-1604C-1-1S-XX	16	4	0.010	0.015	0.208	51
FA-1802C-1-1S-XX	18	2	0.010	0.015	0.155	22
FA-1802C-2-1S-XX	18	2 Stranded	0.010	0.015	0.155	22
FA-1804C-1-1S-XX	18	4	0.010	0.015	0.170	34

Generic

Fire Alarm Nonshielded Plenum

Power limited fire alarm and communications cable for riser or non-riser applications. Fire alarm, smoke detectors, signaling, fire protective circuits. XX in part number denotes color, call your local sales representative for specific requirements.

SPECIFICATIONS
1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: FRPVC
3. JACKET: FRPVC with ripcord
4. STANDARDS: NEC FPLP, UL Listed
5. TEMPERATURE: 75°C

Technical Information & Standards
PVC
Solid conductor
FPLP, UL Listed

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-2N-XX	12	2	0.011	0.015	0.238	58
FA-1202C-2-2N-XX	12	2 Stranded	0.011	0.015	0.239	58
FA-1402C-1-2N-XX	14	2	0.011	0.015	0.202	38
FA-1402C-2-2N-XX	14	2 Stranded	0.011	0.015	0.203	38
FA-1404C-1-2N-XX	14	4	0.011	0.015	0.236	71
FA-1602C-1-2N-XX	16	2	0.010	0.015	0.173	26
FA-1604C-1-2N-XX	16	4	0.010	0.015	0.204	48
FA-1802C-1-2N-XX	18	2	0.010	0.015	0.152	18
FA-1802C-2-2N-XX	18	2 Stranded	0.010	0.015	0.154	20
FA-1804C-1-2N-XX	18	4	0.010	0.015	0.177	34
FA-1806C-1-2N-XX	18	6	0.010	0.015	0.240	49
FA-2204C-1-2N-XX	22	4	0.009	0.015	0.122	16

Fire Alarm Nonshielded Nonplenum

Power limited fire alarm and communications cable for riser or non-riser applications. Fire alarm, smoke detectors, signaling, fire protective circuits. XX in part number denotes color, call your local sales representative for specific requirements.

SPECIFICATIONS
1. CONDUCTOR: Solid bare copper
2. INSULATION: PVC
3. JACKET: PVC with ripcord
4. STANDARDS: NEC FPLR, UL Listed
5. TEMPERATURE: 75°C

Technical Information & Standards
PVC
Solid conductor
FPLR, UL Listed

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-1N-XX	12	2	0.012	0.015	0.264	62
FA-1204C-1-1N-XX	12	4	0.012	0.015	0.258	80
FA-1402C-1-1N-XX	14	2	0.010	0.015	0.212	40
FA-1404C-1-1N-XX	14	4	0.010	0.015	0.252	73
FA-1602C-1-1N-XX	16	2	0.010	0.015	0.183	28
FA-1604C-1-1N-XX	16	4	0.010	0.015	0.216	49
FA-1802C-1-1N-XX	18	2	0.010	0.015	0.156	19
FA-1804C-1-1N-XX	18	4	0.010	0.015	0.181	33
FA-1806C-1-1N-XX	18	6	0.010	0.015	0.223	49
FA-2204C-1-1N-XX	22	4	0.010	0.015	0.122	15

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Two-wire 400 Series Heat Detector

GE SECURITY

The 400 Series self-diagnostic, two-wire smoke detectors continually monitor their own sensitivity and operational status and provide a visual trouble indication if they drift out of sensitivity range or fail internal diagnostics. They meet NFPA 72 field sensitivity testing requirements without the need for external meters.

FEATURES

- Two-wire detector
- Intelligent, self-diagnostic
- Low-profile design
- Available in 6 V DC, 12 V DC and 24 V DC operation
- Options include sounders, auxiliary relays, heat sensors and built-in end-of-line relay
- Meets NFPA 72 without need for external meters or ladders
- 429CT and 429CST available in 10 packs

Anixter No.	Vendor No.	Description
236030	429CT	12/24 V DC with 135 ROR
236029	429CST	135 ROR and 85 dB sounder
236028	429CRT	135 ROR and aux relay
236027	429C	12/24 V DC smoke detector
236026	429AT	6/12 V DC with 135 ROR

Four-wire 400 Series Heat Detectors

GE SECURITY

The 400 Series self-diagnostic, four-wire smoke detectors continually monitor their own sensitivity and operational status and provide a visual trouble indication if they drift out of sensitivity range or fail internal diagnostics. They meet NFPA 72 field sensitivity testing requirements without the need for external meters.

FEATURES

- Intelligent, self-diagnostic
- Field-replaceable optical chamber
- Low-profile design
- Plug-in terminal block
- Advanced false alarm immunity
- Available in 6 V DC, 12 V DC and 24 V DC operation

- Options include sounders, auxiliary relays, heat sensors and built-in end-of-line relay
- Meets NFPA 72 without need for external meters or ladders
- Bulk packages available for 449CT and 449CST models

Anixter No.	Vendor No.	Description
236037	449CST	135 ROR, 85 dB sounder
236036	449CSRT	135 ROR, aux relay, 85 dB sounder
236035	449CSRH	Aux relay, 85 dB sounder isolated 135 ROR
236034	449CRT	135 ROR and aux relay
236033	449C	12/24 V DC smoke detector
236032	449CT	12/24 V DC 135 ROR
236031	449AT	6/12 V DC with 135 ROR
320886	449CTE	12/24 V DC with heat, power supervision

SafeAir 250-CO Detector

GE SECURITY

The next generation GE SafeAir 250-CO carbon monoxide (CO) detector is an accurate and reliable means of alerting building occupants of potentially dangerous levels of CO in the protected area. The internal electro-chemical sensor communicates with a sophisticated on-board microprocessor that accurately tracks CO levels over time.

This commercial-grade detection technology results in quick response, reliable sensing, fast reset time, and superior false alarm immunity. Its small size allows the 250-CO to blend inconspicuously with any decor, and its smooth contoured design is compatible with both residential and commercial environments.

FEATURES

- Uses highly reliable, commercial-grade, electro-chemical sensing technology
- Built-in trouble/power supervision relay
- 12 or 24 V DC operation and 150 mA relay contact configurable for normally open or normally closed operation
- Long-life six-year sensor
- Transmits sensor end-of-life to the control panel and central station if the system is monitored
- Fully listed to the latest UL 2075 CO standard for residential or commercial occupancies
- Adapter plate makes replacing GE 240-COe CO detector simple

Anixter No.	Vendor No.	Description
421524	250-CO	SafeAir Carbon monoxide detector, alarm and trouble relays, sounder, end-of life signal, 12/24 V DC
421525	250-COPLT-5PKG	Adapter plate for use when replacing the GE/ESL 240-COe CO detector with a 250-CO

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10.7

NX Wireless Smoke Detector

GE SECURITY

The NX smoke alarm/detector is a Learn Mode wireless sensor that uses photoelectric technology with a self-contained alarm siren, a low battery annunciator, and a status LED. The smoke alarm/detector is part of a security/fire alarm system and communicates with the system control panel.

FEATURES

- Long battery life - up to 6.5 years
- Two 3 V lithium batteries
- 85 dB sounder
- Field replaceable optical chamber
- Self diagnostics
- Drift compensation
- Learn mode
- NX-491NT = UL 217 and CSFM listed, with test/silence button

Anixter No.	Vendor No.	Description
235336	NX-491NT	Wireless smoke detector with test/silence button

D263/D273 Series Photoelectric Smoke Detectors

BOSCH SECURITY SYSTEMS

The D263 and the D273 Photoelectric Smoke Detectors use an LED light source and a silicon photo diode to measure light in a chamber. In normal conditions the light source is absorbed in the chamber. The presence of a significant number of particulates allows the light to reflect to the photo diode. Diode measurements exceeding the alarm threshold cause the unit to signal an alarm condition. The detection chamber, designed for reliable smoke entry characteristics, is protected by a micro-fine insect screen to reduce dust accumulation and minimize nuisance alarms. To further reduce nuisance alarms, the D263 and D273 check their calibration. This Chamber Check feature is automatic. If the detector is out of calibration for a period exceeding 24 hours, the Trouble/Alarm LED flashes once per second, three times the normal rate. These detectors have an internal diagnostic test that is activated by an external magnet. This test results in specific LED and alarm circuit responses to indicate:

-Detector within calibration standards

-Detector settings outside sensitivity standards

-Detector not operational

This test is especially useful in environmentally unstable or clean areas. The detector can be reset from the panel, after an alarm condition is cleared, by interrupting power. These detectors have a socket that accepts the D1005 test cable. The D1005 connects to the head and allows a voltmeter to read the sensitivity of the device. Depending on the specific need, the D263 and D273 series of detectors offer the following options: heat sensor, sounder, trouble relay, EOL relay and auxiliary relay. The D263 and D273 Series detectors can be used with Trim Plate TP280 for retrofit and remodeling purposes. TP280 has a diameter of 6 3/8 in. (16.2 cm).

FEATURES
- 12/24 V photoelectric smoke and combined smoke/heat detectors
- Designed for commercial or residential use
- Two-wire (D263) or four-wire (D273) application
- Chamber Check rapid-flash LED Automatic Trouble Indication reports contaminated chamber
- Flashing LED power indicator
- Steady-on LED alarm indicator
- Removable terminal block to simplify wiring connections
- Cable connection point for voltmeter sensitivity test

Anixter No.	Vendor No.	Description
274219	D263	Two-wire Series photoelectric smoke detectors
231766	D273	Four-wire Series photoelectric smoke detectors

D285/D285TH Photoelectric Smoke Detectors

BOSCH SECURITY SYSTEMS

These smoke detector heads are a part of two component modular detectors, the second component being the detector base. A variety of bases are compatible with these heads, with applications for two- and four-wire circuits operating in 12 or 24 V systems. The bases are permanently attached and wired to backboxes. The interchangeable heads quickly detach for replacement and cleaning without disturbing the circuit wiring. Head removal results in a trouble signal at the panel. The Bosch D285 Photoelectric Smoke Detector Head uses an infrared LED light source and a silicon photo diode to measure light in a chamber. In normal conditions the light source is absorbed in the chamber. The presence of a significant number of particulates allows the light to reflect to the photo diode. Diode measurements exceeding the alarm threshold cause the unit to signal an alarm condition. The detection chamber, designed for reliable smoke entry characteristics, is protected by a micro-fine insect screen to reduce dust accumulation and minimize nuisance alarms. To further reduce nuisance alarms, the D285 and D285TH heads check their calibration. This Chamber Check feature is automatic. If the head is out of calibration for a period exceeding 24 hours, the Trouble/Alarm LED flashes once per second, three times the normal rate.

FEATURES
- Designed for commercial or residential use
- Two-wire or four-wire application
- Chamber Check rapid-flash LED Automatic Trouble
- Indication reports contaminated chamber
- Flashing LED power indicator
- Steady-on LED alarm indicator
- Modular design
- D285TH model incorporates a 135°F (57°C) heat sensor
- D285DH for use with the D340, D341 and D342 duct smoke detector housings

Anixter No.	Vendor No.	Description
274260	D285	Photoelectric smoke detectors
274262	D285TH	Photoelectric smoke detectors with heat sensor

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10.9

Bosch Security Systems, Inc.

F220P Smoke Detectors

BOSCH SECURITY SYSTEMS

The F220 Series take smoke detection, alarms, testing and maintenance to the next level. For commercial or residential buildings you can minimize unwanted alarms and respond to real events quickly with fast accurate notification. The F220 series offers multicriteria detection including carbon monoxide (CO) verification of alarm events. The patented ChamberMaid technology provides a timesaving cleaning method, simply dispense compressed air through the self-sealing valve in the head to blow out contaminants.

FEATURES

- Photoelectric smoke with heat and CO options
- Advanced diagnostics with CleanMe technology
- Longer service life
- Decreased maintenance costs
- Dramatically reduce unwanted alarms
- Superior smoke detection over older technology

Anixter No.	Vendor No.	Description
311608	F220-P	Photo spot smoke
311609	F220-PTH	Photo smoke with thermistor
311610	F220-PTHC	Photo smoke with TH and CO
311604	F220-B6	Two-wire base
311605	F220-B6C	Four-wire base with auxiliary relay
311606	F220-B6E	Four-wire base with EOL relay
311607	F220-B6R	Four-wire base
311601	F220-135	Rate of rise heat detector
311602	F220-135F	Fixed temp 135° heat detector
311603	F220-190F	Fixed temp 190° heat detector
311779	SMK-TM	Smoke detector test magnet (limited life)

D296 24 V Projected Beam Smoke Detector

BOSCH SECURITY SYSTEMS

Each D296 or D297 Projected Beam Smoke Detector consists of a transmitter, a receiver and a remote annunciation plate. The transmitter emits a pulsed infrared beam. The receiver measures the frequency and intensity of the beam over a period of time and compares this data with a trouble and alarm thresholds. The alarm threshold is field-selectable through a switch on the receiver to one of six levels of sensitivity. The trouble threshold is preset. If the receiver senses a signal strength below the preset alarm threshold in excess of the alarm period it signals an alarm. The receiver automatically compensates for the gradual loss of signal due to dust/dirt buildup on the cover. When 50 percent of the signal is lost, the receiver will indicate trouble. When the dust/dirt buildup is cleaned or the blockage is removed, the detector automatically resets.

If the signal falls below the trouble threshold (approximately 3 percent) for more than 20 seconds, as might happen if an object blocked the beam, the receiver signals a trouble condition.
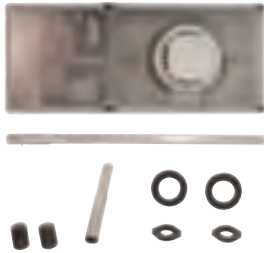
FEATURES

- 12 or 24 V models
- Operates over distances between 30 ft. (9 m) and 350 ft. (107 m)
- Six levels of switch-selectable sensitivity
- Built-in alignment sights
- Automatic range adjustment
- Automatic signal synchronization
- Automatic contamination adjustment
- Remote D306 Indicator Plate mounts within 100 ft. (30 m) of receiver and annunciates voltage, trouble and alarm conditions
- Switch-selectable alarm signal delay
- Auxiliary Form "C" alarm relay
- Built-in tamper protection
- Mounts to standard 4 in. (10 cm) square or octagonal backbox

Anixter No.	Vendor No.	Description
274265	D296	24 V projected beam smoke detector

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Bosch Security Systems, Inc.

D340 Air Duct Smoke Detector Housing

BOSCH SECURITY SYSTEMS

The D340 Air Duct Smoke Detector Housing is designed to mount to the ducts of HVAC systems to monitor the presence of smoke in the conditioned air. It is designed to work with two-wire photoelectric and ion smoke detectors. The efficient housing design samples the air passing through a duct and allows the detection of a potentially hazardous condition. When smoke is detected, the detector sends an alarm signal to the control panel and/or HVAC control equipment which will initiate the necessary action to control air handling systems.

FEATURES

- D340 for conventional two-wire loops
- Ion and photoelectric models
- For ducts 12 in. (30.5 cm) to 10 ft. (3 m)
- 300 to 4,000 ft./min. (1.52 to 20.3 m/sec.) air velocity
- Easy duct tube installation through the housing, cuts installation time
- Detector test and reset without removing covers
- Clear cover allows quick visual inspection
- Tube filters and dust immune smoke detector reduce maintenance
- Easy disassembly for cleaning
- UL, ULC, CSFM Listed

Anixter No.	Vendor No.	Description
274264	D340	Duct smoke detector

D603/D604/D605 Heat Detectors

BOSCH SECURITY SYSTEMS

The D603, D604 and D605 are electronic rate-of-rise/fixed temperature heat detectors. They are designed to work with D200 Series bases to provide general property protection. When properly installed using the D200 Series bases, tamper protection is provided by IN/OUT wiring of the positive power line. This causes the control panel to initiate a trouble signal when a detector is removed from its base. Supervision of two-wire systems is provided by the master control and EOL, four-wire system supervision is provided by an end-of-line power supervision device such as a D275, or a D293E and a EOL resistor as specified by the control manufacturer.

FEATURES

- Interchangeable two-wire and four-wire bases
- 12 or 24 V DC operation
- 135°F (57°C) fixed temperature 15°F (9°C) per minute rate-of-rise (D603)
- 135°F (57°C) fixed temperature heat sensor (D604)
- 190°F (88°C) fixed temperature heat sensor (D605)

Anixter No.	Vendor No.	Description
274263	D603	Electronic fixed temperature and rate-of-rise heat detector
274273	D604	135°F (57°C) fixed temperature heat sensor (D604)
274274	D605	190°F (88°C) fixed temperature heat sensor (D605)

Fire Alarm Systems

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Fire Alarm Systems

Area of Rescue Command Unit

TALK-A-PHONE

These fully integrated command units accommodate up to 8 and 16 ADA-compliant Area of Rescue Stations. The unit's strobe/sounder indicates an incoming call, and LEDs indicate the calling location.

FEATURES
- Stations are powered by Command Unit
- Accommodates up to 8/16 ADA-compliant Area of Rescue Stations
- LEDs on Command Unit indicate calling station and line status
- Blinking LEDs indicate stations that are waiting to be answered
- Siren sounds until call is answered; strobe flashes for duration of call
- UPS provides at least four hours battery backup; fits inside CU-8 located outside CU-8R and CU-16

Anixter No.	Vendor No.	Description
274465	CU-8R	Eight station capacity, recess mounted, wall opening: 26 1/8 in. high, 14 1/2 in. wide
230942	CU-8	Eight station capacity 18 3/8 in. high, 24 3/8 in. wide, 4 1/4 in. deep
230941	CU-16	16 station capacity, 23.88 in. high, 24.25 in. wide, 4 in. deep

ETP-100EB Indoor Emergency/Area of Rescue Phone

TALK-A-PHONE

The ETP-100EB is an indoor, ADA-compliant hands-free emergency phone for use in locations such as elevators, areas of rescue, stairwells, indoor controlled-access areas, senior citizen housing and correctional facilities.

FEATURES
- Built-in auto dialer can call two numbers
- Vandal-resistant stainless steel faceplate and metal button
- Uses regular phone lines or PBX
- Phone line-powered
- Push button once to call, then speak hands-free
- ADA-compliant

- Use MS-400 Mounting Sleeve to flush into wall or ETP-SM to surface mount
- Use ERP-SM to surface mount

Anixter No.	Vendor No.	Description
230952	ETP-100EB	Flush-mount ADA phone
234301	ETP-100EBV	Flush-mount ADA phone with voice location identifier

ETP-100MB Indoor Emergency/Area of Rescue Phone

TALK-A-PHONE

The ETP-100MB is an indoor, surface-mounting, ADA-compliant hands-free emergency phone for use in locations such as elevators, areas of rescue, stairwells, indoor controlled-access areas, senior citizen housing and correctional facilities.

FEATURES
- Built-in auto dialer can call two numbers
- Vandal-resistant stainless steel faceplate and metal button
- Uses regular phone lines or PBX
- Phone line-powered
- Push button once to call, then speak hands-free
- ADA-compliant

Anixter No.	Vendor No.	Description
230953	ETP-100MB	Surface-mount ADA phone
230954	ETP-100MBV	Surface-mount ADA phone with voice location identifier

ETP-400C One-button Assistance Phone

TALK-A-PHONE

The ETP-400C is an outdoor-rated, ADA-compliant hands-free emergency/information phone for use in locations such as parking facilities, college campuses, controlled access gates, medical centers and industrial parks.

FEATURES
- Built-in auto dialer can call two numbers
- Auxiliary input and outputs
- Vandal-resistant stainless steel
- Uses regular phone lines or PBX

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- Phone line-powered
- ADA-compliant
- CSA Certified to UL Standard 60950

Anixter No.	Vendor No.	Description
232139	ETP-400C	Emergency/information phone
232140	ETP-400CV	Emergency/information phone with voice location identifier

ETP-401C One-button Assistance Phone

TALK-A-PHONE

The ETP-401C is an outdoor-rated, ADA-compliant hands-free emergency/information phone for use in locations such as parking facilities, college campuses, controlled access gates, medical centers and industrial parks.

FEATURES

- Built-in auto dialer can call two numbers
- Auxiliary input and outputs
- Vandal-resistant stainless steel faceplate
- Uses regular phone lines or PBX
- CSA Certified to UL Standard 60950
- Phone line-powered
- ADA-compliant

Anixter No.	Vendor No.	Description
230950	ETP-401C	Surface-mount phone
232148	ETP-401CV	Surface-mount phone with voice location identifier

Area of Rescue Assistance Sign

TALK-A-PHONE

This steel, back-lit sign designates a location as an ADA Area of Rescue Assistance and aids in locating an emergency phone.

FEATURES

- Attractive, attention-getting sign
- Aids with ADA compliance

- Works on 120 or 277 V AC
- Also available as area of refuge

Anixter No.	Vendor No.	Description
240155	ETP-SIGN/L	Lighted area of rescue assistance sign
421149	ETP-SIGN/LR	Lighted area of refuge assistance sign

Area of Rescue Assistance Sign with Battery Backup

TALK-A-PHONE

This lighted Lexan sign with battery backup designates a location as an ADA Area of Rescue Assistance and aids in locating an emergency phone.

FEATURES

- Battery backup in case of power failure
- Attractive, attention-getting sign
- Aids with ADA compliance
- Works on 120/ 277 V AC
- Also available as area of refuge

Anixter No.	Vendor No.	Description
240157	ETP-SIGN/LD	Lighted steel area of rescue assistance sign with battery backup
421150	ETP-SIGN/LDR	Lighted area of refuge assistance sign

Self-adhesive Area of Rescue Sign

TALK-A-PHONE

This self-adhesive sign designates a location as an ADA Area of Rescue Assistance and aids in locating an emergency phone.

FEATURES

- Raised lettering and Braille for ADA-compliance
- Constructed of ultra-violet resistant polycarbonate
- Mounts easily on wall

Anixter No.	Vendor No.	Description
240154	ETP-SIGN	Self-adhesive area of rescue sign
421152	ETP-SIGN-R	Self-adhesive area of refuge sign

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Fact:

We use the Anixter Infrastructure Solutions Lab to evaluate and test a wide range of emerging technologies and new products for enterprise cabling and security networks.

At Anixter, helping our customers choose the right products for their specific applications is paramount to us.

THE LAB
ANIXTER'S INFRASTRUCTURE SOLUTIONS LAB

Anixter is the only distributor that has an independent, UL Certified lab that conducts 10 Gigabit Ethernet cabling testing as well as IP video surveillance testing. Our Lab gives our customers the ability to preview how new products will perform prior to purchasing them.

Anixter's Lab was called upon to help a university determine which copper cabling system would best meet current and future information technology needs. The university had a variety of different copper cabling products installed in its network infrastructure — Category 3, Category 5 and some Category 5e. Anixter's Lab deployed computer applications that the university typically carried over its cabling infrastructure including Lotus Notes, SAP and streaming video.

Testing found that the university's current infrastructure was consistently dropping information, causing the network to operate slowly and inefficiently. This same traffic was sent over a Category 6A infrastructure with no degradation to the data. Armed with testing from Anixter's Lab, university IT professionals wrote cabling infrastructure specifications around a higher performing Category 6A system that better met the university's network performance needs.

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