

TECHLED

Techled Elektronik San. Tic. A.Ş.



Explosion Proof Control and Installation Equipment

Ex-Proof Brochure



2026

Durable. Reliable.

TechLED brings safety into control systems, cable entries, and power connections. Every product in our installation and control range is ATEX certified and engineered for consistent performance in the most demanding industrial environments.

From Ex push-button stations, indicator lights, sockets and plugs, to Ex junction boxes and cable glands, TechLED safeguards the essential points where decisions are made, power flows, and systems connect.

With field-proven reliability, modular engineering, and practical design, TechLED ensures complete compatibility, whether in new installations or retrofit upgrades

TechLED doesn't just illuminate the site. TechLED commands, connects, and protects it.

Why TechLED?

- TechLED explosion proof control, connection, and cable entry products are designed and certified to meet ATEX standards, enabling safe and uninterrupted operation in explosive atmospheres.
- IP66/67 protection, corrosion-resistant hardware, and chemical-resistant enclosures ensure long-term durability in extreme industrial conditions.
- Modular and operator friendly designs provide fast installation, easy maintenance, and reduce the risk of human error
- A wide product range and multiple configurations allow tailored solutions for every project. From single push-button boxes to multi-entry signal units and compact or armored cable glands, TechLED has what is needed.

EX-PROOF

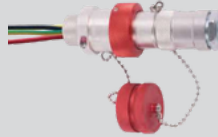
TL-EX-FH-BSP01-Series Explosion-proof Plug and Sockets



II 2G Ex db IIC T6 Gb
Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db
Ex tb IIIC T80°C Db
10, 16, 25, 32, 50, 63A: -60°C ~ +45°C, -60°C ~ +65°C
100, 125A: -60°C ~ +50°C
Zone 1 & 2,
Zone 21 & 22
IP66



TL-EX-FH-BSP03-Series Explosion-proof Plug and Sockets



Ex db IIC Gb
Ex tb IIIC Db
6A, 10A: -40°C ~ +70°C
16A: -40°C ~ +60°C
Zone 1 & 2,
Zone 21 & 22
IP66, IP68



TL-EX-FH-BSP07-Series Explosion-proof Plug and Sockets



Ex db eb II C T6/T5 Gb(16A) Ex db eb II C T5/T4 Gb(32A) Ex db eb II C T5 Gb(63A) Ex db eb II C T4 Gb(125A) Ex tb III C
T80°C Db
-20°C ~ +40°C, -40°C ~ +40°C, -40°C ~ +55°C
Zone1, Zone2,
Zone21, Zone22
IP66
Certification Pending



TL-EX-FH-DP03- Series Explosion-proof Electrical Apparatus



Ex db II B T6/T5/T4 Gb Ex db [ia/ib] II B T6/T5/T4 Gb Ex db II B+H2 T6/T5/T4 Gb Ex db [ia/ib] II B+H2 T6/T5/T4 Gb Ex tb III C T80/95/130°C Db
T6/T5: -20°C ~ +40/60°C
T5/T4: -40°C ~ +40/60°C
Zone 21 and Zone 22
IP66, IP67
Certification Pending



TL-EX-FH-DP05- Series Explosion-proof Electrical Apparatus(Circuit Breaker)



Ex db II B T6/T5 Gb Ex db II B + H2 T6/T5 Gb Ex tb III C T80/T95°C Db
T6/T5: -20°C ~ +60°C, -40°C ~ +60°C
Zone 1 and Zone 2
Zone 21 and Zone22
IP66, IP67
Certification Pending



TL-EX-FH-DP06-Series Explosion-proof Electrical Apparatus (Magnetic Starter)

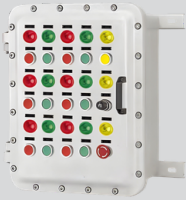


II 2G Ex db IIB T6/T5/T4 Gb
Ex db IIB T6/T5/T4 Gb
II 2G Ex db IIB+H2 T6/T5/T4 Gb
Ex db IIB+H2 T6/T5/T4 Gb
II 2D Ex tb IIIC T80/T95/T130°C Db
Ex tb IIIC T80/T95/T130°C Db
-20°C ~ +40/60°, -40°C ~ +40/60°C
Zone 1 & 2,
Zone 21 & 22
IP66



EX-PROOF

TL-EX-FH-DP07-Series Explosion-proof Electrical Apparatus(Circuit Breaker)



II 2G Ex db IIB T6 Gb
Ex db IIB T6 Gb
II 2G Ex db[ia/ib] IIB T6 Gb
Ex db[ia/ib] IIB T6 Gb
II 2G Ex db IIB+H2 T6 Gb
Ex db IIB+H2 T6 Gb
II 2G Ex db[ia/ib] IIB+H2 T6 Gb
Ex db[ia/ib] IIB+H2 T6 Gb
II 2D Ex tb IIIC T80°C Db
Ex tb IIIC T80°C Db

-20°C~-+40/60°, -40°C~-+40/60°C

Zone 1 and Zone 2,
Zone 21 and Zone 22
IP66

TL-EX-FH-DP11- Series Explosion-proof Electrical Apparatus (Terminal box)



Ex db II B T6/T5/T4 Gb
Ex db[ia/ib] II B T6/T5/T4 Gb
Ex db II B+H₂ T6/T5/T4 Gb
Ex db[ia/ib] II B+H₂ T6/T5/T4 Gb
Ex tb III C T80/T95/T130°C Db

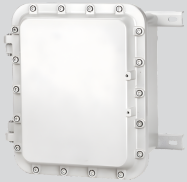
-20 °C ~+60 °C, -20 °C ~+60 °C
-20°C~-+40°C, -40°C~-+40°C

Zone1,Zone2,
Zone21,Zone22
IP66

Certification Pending

Enclosure Size(mm):
282 x 210 x 170, 350 x 210 x 170, 433 x 350 x 280,
563 x 430 x 280, 720 x 563 x 280, 720 x 563 x 350

TL-EX-FH-E03 Series Explosion-proof Enclosures



Ex db II B Gb Ex tb IIIC
Db Ex db II B + H2 Gb Ex
tb IIIC Db

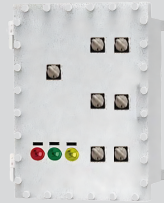
-40°C ≤ Ta ≤ +60 °C
-20°C ≤ Tservice ≤ +100 °C
-40°C ≤ Ta ≤ +60 °C
-40°C ≤ Tservice ≤ +100 °C

Zone 1 and Zone 2
Zone 21 and Zone 22
IP66

Certification Pending

Shell size (mm): 282 × 210 × 170,
350 × 210 × 170, 433 × 350 × 280, 563
× 430 × 280, 720 × 563 × 280,
720 × 563 × 350.

TL-EX-FH-DP23-Series Explosion-proof Electrical Apparatus

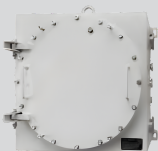


II 2G Ex db IIB T6...T4 Gb
Ex db IIB T6...T4 Gb
II 2G Ex db (ia Ga) IIB T6...T4 Gb
Ex db (ia Ga) IIB T6...T4 Gb
II 2G Ex db IIB+H2 T6...T4 Gb
Ex db IIB+H2 T6...T4 Gb
II 2G Ex db (ia Ga) IIB+H2 T6...T4 Gb
Ex db (ia Ga) IIB+H2 T6...T4 Gb
II 2D Ex tb IIIC T80°C/T95°C/T130°C Db
Ex tb IIIC T80°C/T95°C/T130°C Db
II 2D Ex tb[ia Da] IIIC T80°C/T95°C/T130°C Db
Ex tb[ia Da] IIIC T80°C/T95°C/T130°C Db

-40°C~-+40/60°C, -45°C~-+40/60°C,
-60°C~-+40/60°C

Zone 1 & 2,
Zone 21 & 22
IP66

TL-EX-FH-DP32-Series Explosion-proof Electrical Apparatus



II 2G Ex db IIIC T6/T5/T4 Gb
Ex db IIIC T6/T5/T4 Gb
II 2G Ex db [ia Ga] IIIC T6/T5/T4 Gb
Ex db [ia Ga] IIIC T6/T5/T4 Gb
II 2D Ex tb [ia Da] IIIC
T80/T95/T130°C Db
Ex tb [ia Da] IIIC T80/T95/T130°C Db

-40°C / -60°C ~ +40°C / +60°C

Zone 1 and Zone 2,
Zone 21 and Zone 22
IP66,IP67

TL-EX-FH-DP50-Series Explosion-proof Electrical Apparatus



Ex db eb IIIC T6...T4 Gb
Ex tb IIIC T80°C Db

-40°C~-+40°C, -40°C~-+45°C, -40°C~-+60°C

Zone 1 and Zone 2,
Zone 21 and Zone 22
IP66

EX-PROOF

TL-EX-FH-BH02- Series Explosion-proof Terminal Box



Ex eb IIC T6/T5/T4 Gb
Ex ia IIC T6 Ga Ex ib IIC T6 Gb
Ex tb III C T80°C/T95°C/T130°C Db
Ex be T6 for Tamb:-40°C~+40°C;

Ex be T6 for Tamb:-40°C~+40°C;
T5 for Tamb:-40°C~+55°C;
T4 for Tamb:-40°C~+40/55°C;
Ex ia T6 for Tamb:-40°C~+40/45/55/60°C

Certification Pending



TL-EX-FH-BH03- Series Explosion Proof Junction Boxes



Ex eb II C T6/T5/T4 Gb
Ex ia II C T6 Ga Ex ib II C T6 Gb
Ex tb III C T80/T95/T130°C Db

-40~+40/50/55/60/65°C

Zone0,Zone1,Zone2,
Zone21,Zone22
IP66

Certification Pending



TL-EX-FH-BH05- Series Explosion-proof Terminal Boxes



Ex eb II C T6 Gb
Ex ia II C T6 Ga
Ex ib II C T6 Gb
Ex tb III C T80°C Db

Ex e ,Ex tb -40°C~+40/55°C
Ex i ,Ex tb -40°C~+50/60/65°C

Enclosure Size(mm):
95×95×63,125×125×70

Zone0,Zone1,Zone2,
Zone21,Zone22
IP66



TL-EX-FH-BX02- Series Explosion-proof Control Station



Ex db eb IIC T6 Gb
Ex tb IIIC T80°C Db

-40°C ~+40°C /+55°C

Zone 1 and Zone 2
Zone 21 and Zone 22
IP66

Certification Pending



TL-EX-FH-BX03- Series Explosion-proof Control Station



Ex db II B T6/T5/T4 Gb Ex db [ia/ib] II B T6/T5/T4 Gb Ex db II B+H2 T6/T5/T4 Gb Ex db [ia/ib] II B+H2 T6/T5/T4 Gb Ex tb III C T80/95/130°C Db

T6/T5:-20°C~+40/60°C
T5/T4:-40°C~+40/60°C

Zone 21 and Zone 22
IP66,IP67

Certification Pending



TL-EX-FH-BX05- Series Explosion-proof Control Station



Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db

-40°C ~+40°C /+55°C

Zone 1 and Zone 2
Zone 21 and Zone 22
IP66

Certification Pending



EX-PROOF

TL-EX-FH-0101-0102-0108- Series Explosion-proof Button/Switch



TL-EX-FH-0101-□□□:
Ex db eb IIC Gb
-40°C ≤ T_a ≤ +60 °C (6A)/+60°C (10A) -40°C
≤ T_{service} ≤ +85°C

TL-EX-FH-0101-□□ M□:
Ex db eb IIC Gb
-40°C ≤ T_a ≤ +70 °C (6A)/+65°C (10A)
-40°C ≤ T_{service} ≤ +85°C

Ex db eb II C T6/T5 Gb
Ex tb IIIC T80/T95°C Db
6 A : -40°C ≤ T_a ≤ +55°C / 65°C
10A: -40°C ≤ T_a ≤ +50°C / 55°C

Zone 1 and Zone 2 , Zone 21 and Zone 22
IP66

Certification Pending

TL-EX-FH-0101-0102-0108-Series Explosion-proof Signal Lamp



TL-EX-FH-0102- □ □ □ : Ex db eb
IIC Gb -40 °C ≤ T_a ≤ +70 °C
-40°C ≤ T_{service} ≤ +85°C

TL-EX-FH-0102- □ M □ :
Ex db eb IIC Gb
-40°C ≤ T_a ≤ +70°C (6A)/+65°C (10A)
-40°C ≤ T_{service} ≤ +85°C

TL-EX-FH-0101- □ / □ MD □ :
Ex db eb II C T6/T5 Gb
Ex tb IIIC T80/T95°C Db
6 A : -40°C ≤ T_a ≤ +55°C / 65°C
10A: -40°C ≤ T_a ≤ +50°C / 55°C

Zone 1 and Zone 2, Zone 21 and Zone 22
IP66

Certification Pending

TL-EX-FH-0105- Series Explosion-proof Switch Button



Ex db IIC Gb Ex tb IIIC Db

-40 °C ≤ T_s ≤ + 100 °C

Zone 1 and Zone 2
Zone 21 and Zone 22
IP66

Certification Pending

TL-EX-FH-0107-Series Explosion-proof Signal Lamp



Ex db eb II C Gb Ex tb III C Db

-40 °C ≤ T_a ≤ + 70 °C
-40 °C ≤ T_s ≤ + 100 °C

Zone 1 and Zone 2
Zone 21 and Zone 22
IP66

Certification Pending

TL-EX-FH-0109- Series Explosion-proof Ammeter



Ex eb II Gb Ex mb II Gb

-25°C ≤ T_a ≤ +80°C
-45 °C ≤ T_s ≤ +80°C

Zone 1 and Zone 2
IP66

Certification Pending

TL-EX-FH-0160-0161-0161 L-0173 Series Explosion-proof Anticorrosive Moulded Case Circuit Breaker



Ex db eb IIC Gb

-40°C ~ +100°C

Zone 1 & 2

EX-PROOF

TL-EX-RT-XX Blind Plug



II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db

-40 ° C + 130 ° C

Zone 1 and Zone 21
IP66/67

2014 / 34 / EU

EN 60079-0 / EN 60079-1
/ EN 60079-31

Aluminum / Galvanized Metal
Stainless Steel / Nickel Plated Brass

TL-EX-KP-XX- Series Coupling



II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db

-40 ° C + 130 ° C

Zone 1 and Zone 21
IP66/67

2014 / 34 / EU

EN 60079-0 / EN 60079-1
/ EN 60079-31

Aluminum / Galvanized Metal
Stainless Steel / Nickel Plated Brass

TL-EX-R-X1-X2-X3- Series Reduction



II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db

-40 ° C + 130 ° C

Zone 1 and Zone 21
IP66/67

2014 / 34 / EU

EN 60079-0 / EN 60079-1
/ EN 60079-31

Aluminum / Galvanized Metal
Stainless Steel / Nickel Plated Brass

TL-EX-NP-XX Series Nipple



II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db

-40 ° C + 130 ° C

Zone 1 and Zone 21
IP66/67

2014 / 34 / EU

EN 60079-0 / EN 60079-1
/ EN 60079-31

Aluminum / Galvanized Metal
Stainless Steel / Nickel Plated Brass

TL-EX-ST-XX- Series Sealing Fittings



II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db

-40 ° C + 80 ° C

Zone 1 and Zone 21
IP66

2014 / 34 / EU

EIEC EN 60079-0:2018 , EN 60079-1:2014 , EN 60079-31:2014

Aluminum Casting

TL-EX-JB1-X-X-X Type Electric Junction Box



II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T85°C Db

-40 ° C + 80 ° C

Zone 1 and Zone 21
IP66

2014 / 34 / EU

EN IEC 60079-0 : 2018 , EN 60079-1 : 2014 , EN 60079-31 : 2014

Aluminum Casting

EX-PROOF

TL-EX-ACGX Series Cable Glands



II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db

Zone 1 and Zone 21
IP67

2014 / 34 / EU

EN 60079-0 : 2013 , EN 60079-1 :
2014, EN 60079-31 : 2014

Brass / Stainless Steel / Nickel Plated

TL-EX-CGX Series Cable Glands



II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db

Zone 1 and Zone 21
IP67

2014 / 34 / EU

EN 60079-0 : 2013 , EN 60079-1 :
2014, EN 60079-31 : 2014

Brass / Stainless Steel / Nickel Plated

EX-PROOF

Labeling of explosion proof equipment According to ATEX directives

Application	Equipment Group	Equipment Categorized by		Level of Protection		Equipment Category	Explosive Atmosphere Contains	Zone Classification
Mining	I	Required Performance in the Event of an Explosive Atmosphere	Remain Functional	Very High	Two Faults	M 1	Gas	Zone 0
			De-energised	High	Normal Operation	M 2	Dust	
Other Industries	II	Expectancy of the Occurrence of an Explosive Atmosphere	Continuously for Long Periods or Frequently	Very High	Two Faults	1	Gas	Zone 1
			Occasionally	High	One Fault	2	Dust	Zone 21
			Unlikely or Infrequently and for a Short Period	Normal	Normal Operation	3	Gas	Zone 2
							Dust	Zone 22

Examples

Complies with European Directive: **CE**

Notified Body Number: **0158**

Specific Marking for Explosion Protection: **Ex**

II 2G Ex d IIC T6 Gb

II 1D Ex ta IIIA T80°C Da

Type of Environment	Group & Class		Hazardous Material in the Atmosphere						Temperature Class	
Mines	I		Firedamp	Temperatures according to coal dust accumulation on equipment (≤ 150°C for coal mines or < 450°C for not coal mine tunnels)						
Explosive Gases	IIA	IIB	IIC	Ammonia	Ethanol	Petrol	Acetal-dehyde			
				Methane	Cyclohexane	Diesel Fuel				
				Ethane	n-Butane	Fuel Oil				
				Propane		n-Hexane	Ethyl ether			
				City Gas	Ethylene	Ethyl glycol				
				Acrylic nitrile	Ethylene oxide	Carbon hydrogen				
					Hydrogen	Acetylene				Carbon disulphide
Explosive Dusts	III	A	Flammable fibers	Attention: this list is only a selection of possible flammable mediums and is not complete!						
		B	Non-conductive dust							
		C	Conductive dust							
			For dust explosion proof, the max. surface temperature is directly shown (e.g. T80°C)	T1 <450° C						
				T2 <300° C						
				T3 <200° C						
				T4 <135° C						
				T5 <100° C						
				T6 <85° C						

Protection Symbol	Zones			Type of Protection
	0	1	2	
d		*	*	Flameproof enclosure
e		*	*	Increased safety
i	ia	*	*	Intrinsic safety
	ib	*	*	
	ic	*	*	
m	ma	*	*	Moulding
	mb	*	*	
	mc	*	*	
o		*	*	Oil immersion
q		*	*	Powder filling
n	nA		*	Non-sparking
	nC		*	Enclosed break
	nR		*	Restricted
	nL		*	Limited energy
p	px	*	*	Pressurised enclosure
	py	*	*	
	pz	*	*	
Op	Op is	*	*	Optical radiation
	Op pr	*	*	
	Op sh	*	*	
Protection Symbol	Zones			Type of Protection
	20	21	22	
tD	ta	*	*	Protection by enclosure
	tb	*	*	
	tc	*	*	
mD	maD	*	*	Encapsulation
	mbD	*	*	
	mcD	*	*	
iD	iaD	*	*	Intrinsic safety
	ibD	*	*	
	icD	*	*	
pD		*	*	Pressurised enclosure

Zone Classification/Equipment Category	Equipment Protection Level (EPL)		
Zone 0/1G	Ga	Gb	Gc
Zone 1/2G			
Zone 2/3G			
Zone 20/1D	Da	Db	Dc
Zone 21/2D			
Zone 22/3D			
NA/M1	Ma		
NA/M2	Mb		

OUR REFERENCES

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TECHLED

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