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DATA SHEET

DMM4-AA110A0A0

DMM4
System plugs and extension modules

SICK Sensor Intelligence



SYSTEM PLUGS AND EXTENSION MODULES

DMM4-AA110A0A0

ORDERING INFORMATION

Type	part no.
DMM4-AA110A0A0	1125562

Further device versions and accessories at www.sick.com/DMM4

DETAILED TECHNICAL DATA

FEATURES

Description	The DMM4 extension module extends the functional scope of an electro-sensitive protective equipment (ESPE). The extended functional scope of the ESPE is referred to as function package DMM4. The extension module has several inputs and outputs to which the ESPE and other devices or sensors can be connected.
Compatible devices	deTec4 (30 mm resolution), deTem4, deTem4 A/P for a specific version number or higher (functional scope)
deTec4 safety light curtain	
Sender	V1.1.0 or higher
Receiver	V1.2.0 or higher
deTem4 safety light-beam sensor	
Sender	V1.0.0 or higher
Receiver	V1.0.0 or higher
deTem4 A/P safety light-beam sensor	
Active unit	V1.1.0 or higher
Items supplied	DMM4 extension module USB protective cover Protective caps for M12 round connectors Safety instruction Mounting instructions Operating instructions for download Safety Designer configuration software for download

SAFETY-RELATED PARAMETERS

Type	Type 4 (IEC 61496)
Safety integrity level	SIL 3 (IEC 61508, IEC 62061)
Category	Category 4 (ISO 13849)
Performance level	PL e (ISO 13849)
PFH_D (mean probability of a dangerous failure per hour)	3.5×10^{-9}
T_M (mission time)	20 years (ISO 13849)

FUNCTIONS

Note	The scope of the function package DMM4 depends on the connected ESPE.
deTec4 safety light curtain	Beam coding Restart interlock Smart restart interlock External device monitoring (EDM) Application diagnostic output (ADO) Cascading Smart presence detection Reduced resolution (Basic) Manual adjustment of the protective field width Transmitting power adjustment Muting (2-signal muting) Muting (4-signal muting) Partial muting Operating mode selection Configurable multiple sampling Inputs for safety sensors (SDI)
deTem4 safety light-beam sensor	Beam coding Restart interlock External device monitoring (EDM) Application diagnostic output (ADO) Manual adjustment of the protective field width Transmitting power adjustment Muting (2-signal muting) Muting (4-signal muting) Partial muting Operating mode selection Inputs for safety sensors (SDI)
deTem4 A/P safety light-beam sensor	Beam coding Restart interlock External device monitoring (EDM) Application diagnostic output (ADO) Muting (2-signal muting) Muting (4-signal muting) Operating mode selection Inputs for safety sensors (SDI)

INTERFACES

System connection	Male connector M12, 8-pin
Sender connection	Female connector M12, 8-pin
Receiver connection or active unit	Female connector M12, 8-pin
Muting sensors connection (A1, A2, B1, B2)	4 × M12 female connector, 5-pin
Device connections (X1, X2, X3)	3 × M12 male connector, 5-pin
Configuration and diagnostics	USB 2.0 Type-C
Configuration method	Via software (Safety Designer)
Display elements	Status LEDs

ELECTRONICS

Protection class	III (IEC 61140)
Supply voltage V_S	24 V DC (19.2 V ... 28.8 V)
Residual ripple	≤ 10 % [1]

[1] Within the limits of V_S.

MECHANICS

Dimensions (W x H x D)	35.4 mm x 290.2 mm x 33 mm

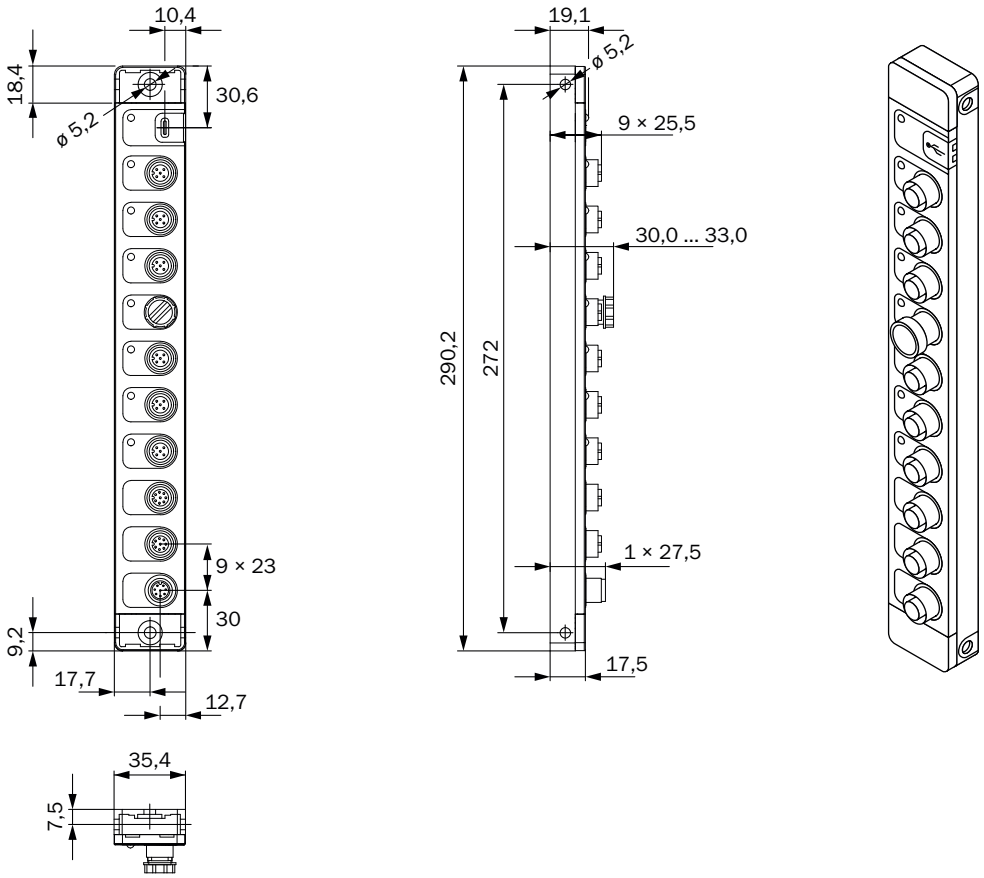
AMBIENT DATA

Enclosure rating	IP65 / IP67 (IEC 60529)
Ambient operating temperature	–30 °C ... +55 °C
Storage temperature	–30 °C ... +70 °C
Air humidity	15 % ... 95 %, Non-condensing
Vibration resistance	5 ... 150 Hz, 3,5 mm / 1 g (EN 60068-2-6)
Shock resistance	15 g / 6 ms (EN 60068-2-27)
Class	3M4 (IEC TR 60721-4-3)
EMC	According to IEC 61496-1, IEC 61000-6-2, IEC 61000-6-4

CERTIFICATES

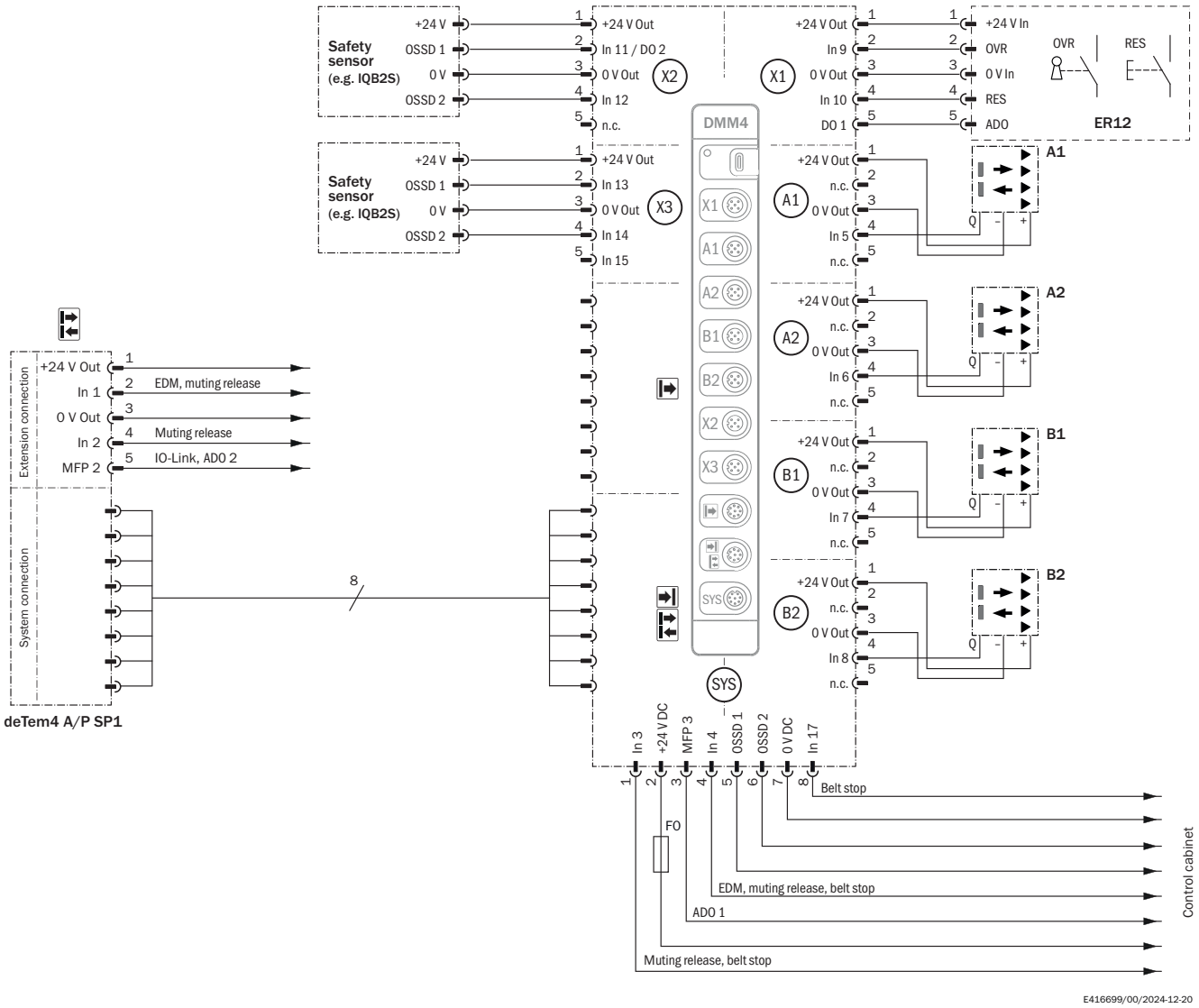
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
ULus approval	✓
cUL approval	✓
EC-Type-Examination approval	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

DIMENSIONAL DRAWING DMM4



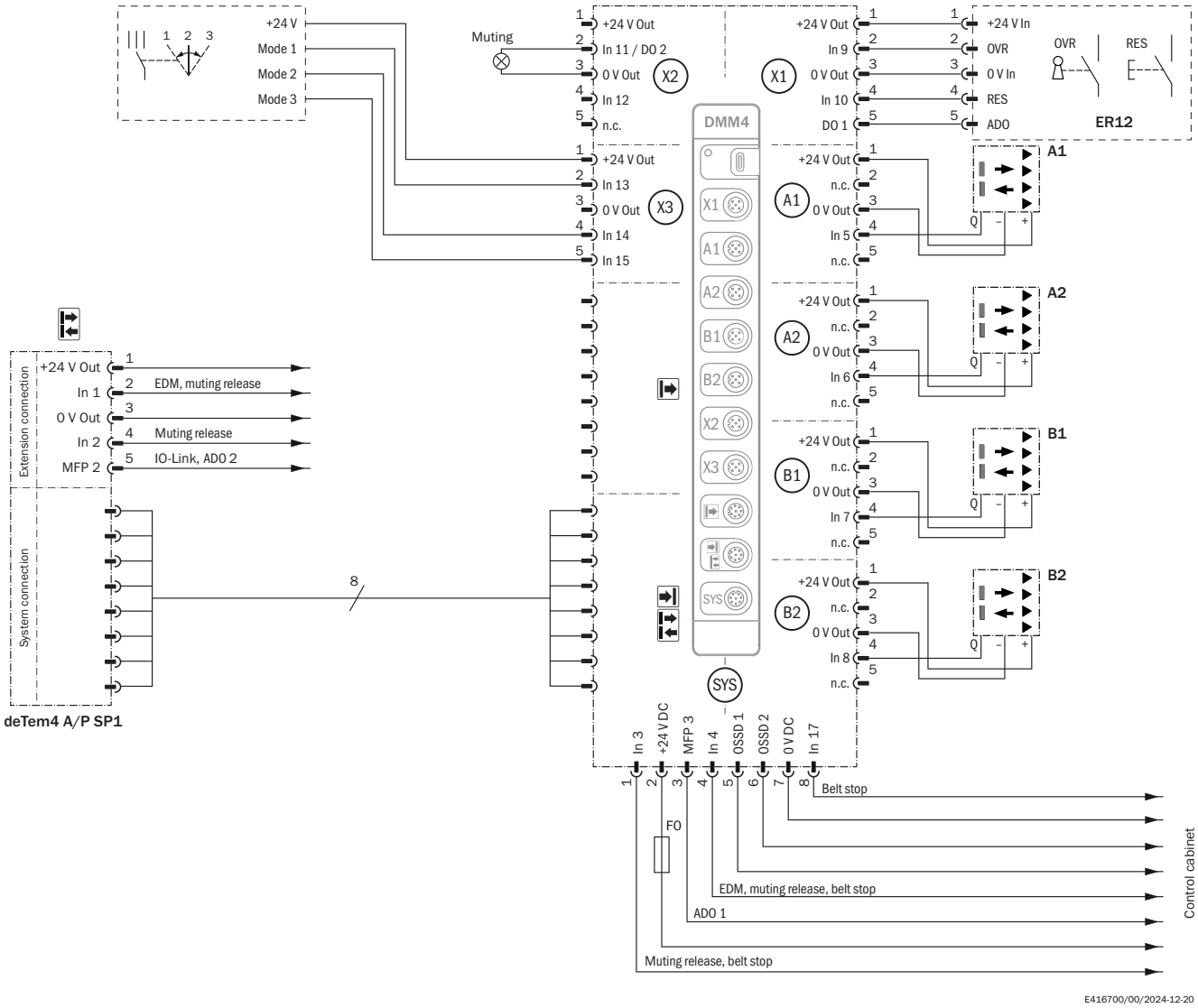
Dimensions in mm (inch)

CONNECTION DIAGRAM DETEM4 A/P ON DMM4, CONNECTION DIAGRAM, MUTING, RESET, OVERRIDE, SDI



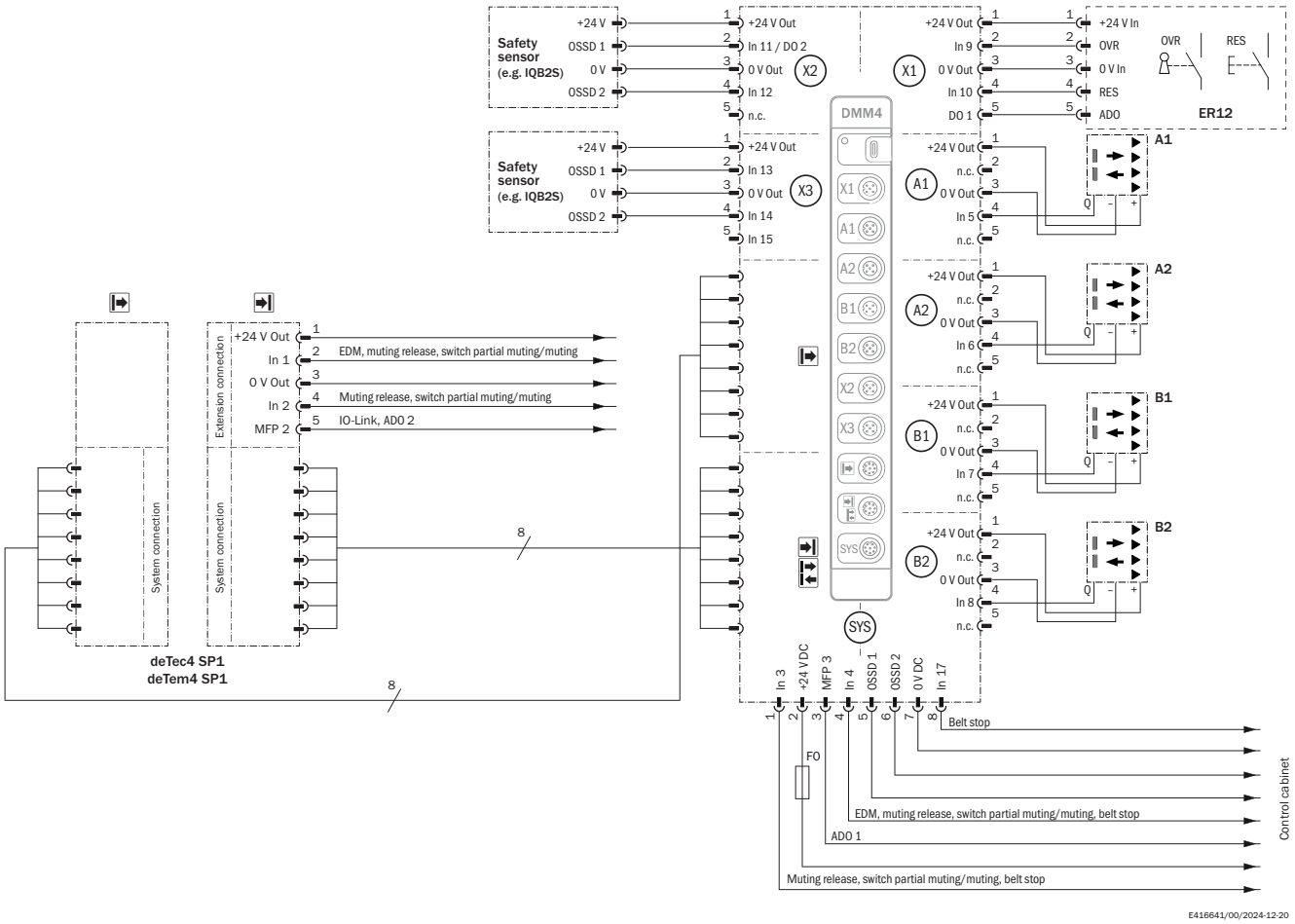
The requirements in the operating instructions of the devices used must be adhered to.

CONNECTION DIAGRAM DETEM4 A/P ON DMM4, CONNECTION EXAMPLE, MUTING, RESET, OVERRIDE, OPERATING MODE SELECTION



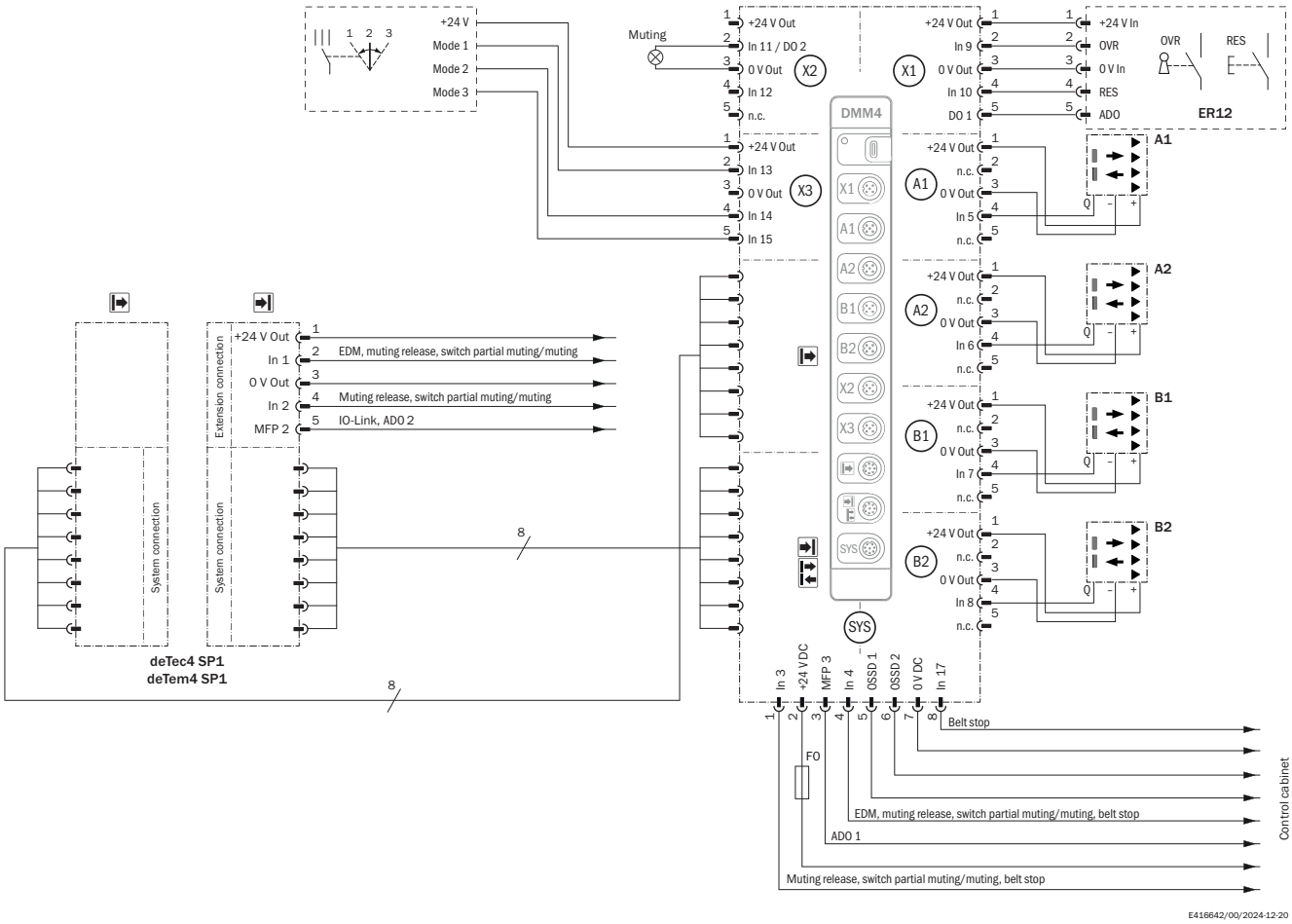
The requirements in the operating instructions of the devices used must be adhered to.

CONNECTION DIAGRAM DETEC4 / DETEM4 ON DMM4, CONNECTION EXAMPLE, MUTING, RESET, OVERRIDE, SDI



The requirements in the operating instructions of the devices used must be adhered to.

CONNECTION DIAGRAM DETEC4 / DETEM4 ON DMM4, MUTING, RESET, OVERRIDE, OPERATING MODE SELECTION



The requirements in the operating instructions of the devices used must be adhered to.

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1125562

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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