

Catalog. 2013

All models and data at a glance

CCTV Cameras, communication systems, equipment and accessories for explosion risk zones. Products, services, planning, assembly supervision and commissioning.

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ExCam vario

new

new

in a stainless steel housing

ExCam vario

The **ExCam vario** is a camera approved for hazardous areas (gas and dust) in accordance with directive 94/9/EC (ATEX).

The **ExCam vario** is the world's smallest explosion-proof variofocal camera of its class. Despite its very compact dimensions, it features DSP, automatic shutter control, minimal illumination of 0.15Lux, AGC-Turbo, S/W, fast lens with F1.2/3.8-9.5mm, automatic white balance and IR cut filter.

product / model	description
ExCam vario T03-AL-B-005-X-L	Varifocal camera in an aluminum housing in accordance with Directive 94/9/EC (ATEX).Minimal illumination: 0.15 lxAngle: 74.2° (wide) to 30° (tele)Self adjusting DC irisDay/night function within IR cut filterExplosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level: IP 67 (IEC / EN 60529)Ambient temperature limit: -20°C < T_{amb} < 50°C
ExCam vario T03-VA-B-005-X-L	Varifocal camera in a stainless steel housing in accordance with Directive 94/9/EC (ATEX).Minimal illumination: 0.15 lxAngle: 74.2° (wide) to 30° (tele)Self adjusting DC irisDay/night function within IR cut filterExplosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level: IP 67 (IEC / EN 60529)Ambient temperature limit: -20°C < T_{amb} < 50°C
ExCam vario T03-XX- <u>C</u> -XXX-X-L	Option IIC (surcharge): Certified after IIC for atmospheres containing hydrogen, carbon disulphide and acetylene. Include cable gland with integrated pressure stop. In accordance with DIN EN 60079-14. Explosion protection (gas): Ex II 2G Ex d <u>IIC</u> T6 Gb Product group: A, tariff number: 8525 8019
ExCam vario "long range" T03-XX-X-XXX-X-L	Option "long range" (surcharge): Version with passive two-wire transmitter. Transmission range of up to 500m. Attention: Can only be used in combination with a VZT-21B/TB two-wire receiver Product group: A, tariff number: 8525 8019
ExCam vario "K2" T03-VA-X-XXX-X-L	Option "K2" (surcharge): Version with 90° angle flange for VA housing. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019
ExCam vario "Pin free" T03-VA-X-XXX-X-L	Option "pin free" (surcharge): Version with an even VA housing without pin attachment. Suitable for flange fixation as well as hose clips. Product group: A, tariff number: 8525 8019





ExCam liteTube

The **ExCam liteTube** is an explosion proof zoom borescope camera for dust and gas explosion risk zones in accordance with EU directive 94/9/EC (ATEX).

Used with **Olympus borescopes**, its 1/3" interline transfer CCD image sensor delivers sharp and crisp images - even through very small holes.

In connection with special borescopes, the camera can even look "around corners".

ExCam liteTube

new

with Olympus borescope

product / model	description
ExCam liteTube T03-VA-B-005-X-N	Borescope camera in a stainless steel housing in accordance with Directive 94/9/EC (ATEX).Explosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level:IP 67 (IEC / EN 60529)Ambient temperature limit: $0^{\circ}C < T_{amb} < 50^{\circ}C$ See data sheet for technical data - www.samcon.eu(Olympus borescope not included)Product group:A, tariff number:8525 8019
ExCam liteTube T03-VA- <u>C</u> -XXX-X-N	Option IIC (surcharge): Certified after IIC for atmospheres containing hydrogen, carbon disulphide and acetylene. Includes cable gland with integrated pressure stop.In accordance with DIN EN 60079-14.Explosion protection (gas):Ex II 2G Ex d IIC T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level:IP 67 (IEC / EN 60529)Ambient temperature limit:0°C < $T_{amb} < 50°C$ (see data sheet for technical data - www.samcon.eu)Product group: A, tariff number: 8525 8019
' ExCam liteTube "K2" T03-VA-X-XXX-X-N	Option "K2" (surcharge): Option with 90° angle flange. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019





ExCam miniZoom in a stainless steel housing

ExCam miniZoom

The **ExCam miniZoom** is a zoom camera approved for dust and gas explosion risk zones in accordance with EU directive 94/9/EC (ATEX).

The ExCam miniZoom is the **world's smallest explosion-proof zoom camera** of its class. Despite the camera's compact dimensions, it has a 10x motorised zoom lens, allowing it to be optimally adapted to the specific angle and lighting situation.

product / model	description
ExCam miniZoom T03-VA-B-005-X-N	Camera with motor zoom in a stainless steel housing in accordance with Directive 94/9/EC (ATEX)Minimal illumination: 1.5 lxInterface: VISCA@RS232 or VISCA@RS422Explosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level:IP 67 (IEC / EN 60529)Ambient temperature limit:0°C < T_{amb} < 50°C
ExCam miniZoom T03-VA- <u>C</u> -XXX-X-X	Option IIC (surcharge): Certified after IIC for atmospheres containing hydrogen, carbon disulphide and acetylene. Include cable gland with integrated pressure stop. In accordance with DIN EN 60079-14. Explosion protection (gas): Ex II 2G Ex d IIC T6 Gb Explosion protection (dust):
ExCam miniZoom T03-VA-X-XXX-X- <u>L</u>	Option housing heating (surcharge):Equipped with a self regulating heater for housingExplosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level:IP 67 (IEC / EN 60529)Ambient temperature limit: $-20°C < T_{amb} < 50°C$ See data sheet for technical data - www.samcon.euProduct group:A, tariff number:8525 8019
ExCam miniZoom "K2" T03-VA-X-XXX-X-X	Option "K2" (surcharge): Option with 90° angle flange. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019
ExCam miniZoom "pin free" T03-VA-X-XXX-X-X	Option "pin free" (surcharge): Version with an even VA housing without pin attachment. Suitable for flange fixation as well as hose clips. Product group: A, tariff number: 8525 8019





ExCam niteZoom

The **ExCam niteZoom** is the world's smallest explosion proof zoom camera of its class. Despite its compact dimensions, it has a 10x motorized zoom lens, allowing it to be optimally adapted to a specific angle and lighting situation.

The **ExCam niteZoom** features a Day/Night capability which provides optimum sensitivity in both day and night shooting applications. As the scene illumination darkens, the infrared filter is automatically removed. The camera then switches to B&W mode, enabling it to operate under a minimum illumination of 0.0004 lx (Auto ICR On).

product / model	description
ExCam niteZoom T03-VA-B-005-X-N	Camera with motor zoom in a stainless steel housing in accordance with Directive 94/9/EC (ATEX)Minimal illumination: 1/4 s, 1/3 s mode & ICR on: 0.0004 lxInterface: VISCA@RS422Explosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level:IP 67 (IEC / EN 60529)Ambient temperature limit: $0^{\circ}C < T_{amb} < 50^{\circ}C$ See data sheet for technical data - www.samcon.euProduct group:A, tariff number:8525 8019
ExCam niteZoom T03-VA- <u>C</u> -XXX-X-X	Option IIC (surcharge): Certified after IIC for atmospheres containing hydrogen, carbon disulphide and acetylene. Include cable gland with integrated pressure stop. In accordance with DIN EN 60079-14. Explosion protection (gas): Ex II 2G Ex d IIC T6 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T80°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Ambient temperature limit: 0°C < T_{amb} < 50°C
ExCam niteZoom T03-VA-X-XXX-X- <u>L</u>	Option housing heating (surcharge):Equipped with a self regulating heater for housingExplosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level:IP 67 (IEC / EN 60529)Ambient temperature limit: $\underline{-20^{\circ}C} < T_{amb} < 50^{\circ}C$ See data sheet for technical data - www.samcon.euProduct group:A, tariff number:8525 8019
ExCam niteZoom "K2" T03-VA-X-XXX-X-X	Option "K2" (surcharge): Option with 90° angle flange. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019
ExCam niteZoom "pin free" T03-VA-X-XXX-X-X	Option "pin free" (surcharge): Version with an even VA housing without pin attachment. Suitable for flange fixation as well as hose clips. Product group: A, tariff number: 8525 8019

ExCam niteZoom in a stainless steel housing

new

new





ExCam IP

in a stainless steel housing

ExCam IP

With our ExCam IP, a full-fledged network camera is available for hazardous areas and explosion risk zones.

The video streams can be directly controlled via Ethernet which means that there is no further need for a video server! Electrical power is passed, along with data, via the network cable (IEEE 802.3af). This eliminates the costly installation of power cables.

MJPEG and H.264 in HD, resolution of 1280x800 pixels.

product / model	description
ExCam IP T03- <u>AL</u> -B-005-X-N	Network camera in an aluminum housing in accordance with Directive 94/9/EC (ATEX).Minimal illumination: 1.0 kHorizontal angle: 80°Video compression: H.264, MJPEGResolution: 1280 x 800 to 160 x 90Explosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level: IP 67 (IEC / EN 60529)Ambient temperature limit: -5°C < $T_{amb} < 50°C$ See data sheet for technical data - www.samcon.euProduct group: A, tariff number: 8525 8019
ExCam IP T03- <u>VA</u> -B-005-X-N	Network camera in a stainless steel housing in accordance with Directive 94/9/EC (ATEX).Minimal illumination: 1.0 kHorizontal angle: 80°Video compression: H.264, MJPEGResolution: 1280 x 800 to 160 x 90Explosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level: IP 67 (IEC / EN 60529)Ambient temperature limit: -5°C < T_{amb} < 50°C
ExCam IP T03-XX- <u>C</u> -XXX-X-N	Option IIC (surcharge): Certified after IIC for atmospheres containing hydrogen, carbon disulphide and acetylene. Includes cable gland with integrated pressure stop. In accordance with DIN EN 60079-14. Explosion protection (gas): Ex II 2G Ex d IIC T6 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T80°C Db IP67 See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019
W! ExCam IP "K2" T03-VA-X-XXX-X-X	Option "K2" (surcharge): Option with 90° angle flange. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019
w! ExCam IP "pin free" T03-VA-X-XXX-X-X	Option "pin free" (surcharge): Version with an even VA housing without pin attachment. Suitable for flange fixation as well as hose clips Product group: A, tariff number: 8525 8019





ExCam HD

The ExCam HD is an explosion proof network camera for dust and gas explosion risk zones in accordance with the EU directive 94/9/EC (ATEX).

The video streams as well as the control signals are therefore directly available within the network. Due to Power over Ethernet (PoE), the same cable is used for transferring the data and for supplying the camera with power. As a result, a PoE-Switch or a PoE-Midspan is the sole equipment required in the safe area in order to connect the camera.

The ExCam HD delivers various different video streams simultaneously and supports MJPEG as well as H.264 in HD resolution of 1920x1080 pixels.

product / model	description
ExCam HD T03-VA2-B-005-X-N	Network camera in a stainless steel housing in accordance with Directive 94/9/EC (ATEX).Minimal illumination: 1.0 lxHorizontal angle: Depending on lensVideo compression: H.264, MJPEGResolution: Up to 3MPLens mount type: CS MountExplosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level: IP 67 (IEC / EN 60529)Ambient temperature limit: -10°C < T _{amb} < 50°C
ExCam HD T03-VA2- <u>C</u> -XXX-X-N	Option IIC (surcharge): Certified after IIC for atmospheres containing hydrogen, carbon disulphide and acetylene. Includes cable gland with integrated pressure stop. In accordance with DIN EN 60079-14. Explosion protection (gas): Ex II 2G Ex d IIC T6 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T80°C Db IP67 See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019
ExCam HD "K2" T03-VA2-X-XXX-X-X	Option "K2" (surcharge): Option with 90° angle flange. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019
ExCam HD "pin free" T03-VA2-X-XXX-X-X	Option "pin free" (surcharge): Version with an even VA housing without pin attachment. Suitable for flange fixation as well as hose clips Product group: A, tariff number: 8525 8019

ExCam HD in a stainless steel housing





ToughCam IP and ToughCam HD in stainless steel (VA & VA2)

ToughCam Series

Our **ToughCam Series** comprises mechanically process as well as security cameras which are extremly robust. Apart from a few details, the **ToughCam Series** corresponds with our ExCam Series - just without the certification for explosion proof areas.

All **ToughCams** meet the same high quality standards as our ExCams and are therefore perfect for even the roughest industrial conditions. The stainless steel housing in combination with borosilicate glass and high-end sealings make our **ToughCams** resistant to nearly all media; withstanding even the highest mechanical demands.

	product / model	description
new!	ToughCam vario T03-AL-0-005-X-L	Varifocal camera in an aluminum housing (IP67). Minimal illumination: 0.15 lx Angle: 74.2° (wide) to 30° (tele) Self adjusting DC iris Day/night function within IR cut filter Ambient temperature limit: -20°C < T_{amb} < 50°C See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019
new!	ToughCam vario T03-VA-0-005-X-L	Varifocal camera in a stainless steel housing (IP67). Minimal illumination: 0.15 lx Angle: 74.2° (wide) to 30° (tele) Self adjusting DC iris Day/night function within IR cut filter Ambient temperature limit: -20°C < T_{amb} < 50°C See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019
new!	ToughCam miniZoom T03-VA-0-005-X-N	Camera with motor zoom in a stainless steel housing (IP67) Minimal illumination: 1.5 k Interface: VISCA@RS232 or VISCA@RS422 Ambient temperature limit: $0^{\circ}C < T_{amb} < 50^{\circ}C$ See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019
new!	ToughCam niteZoom T03-VA-0-005-X-N	Camera with motor zoom in a stainless steel housing (IP67) Minimal illumination: 1/4 s, 1/3 s Mode & ICR on: 0.0004 lx Interface: VISCA@RS422 Ambient temperature limit: 0°C < T _{amb} < 50°C See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019
new!	ToughCam IP T03- <u>AL</u> -0-005-X-N	Network camera in an aluminum housing (IP67) Minimal illumination: 1.0 lx Horizontal angle: 80° Video compression: H.264, MJPEG Resolution: 1280 x 800 to 160 x 90 Ambient temperature limit: -5°C < T _{amb} < 50°C See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019
new!	ToughCam IP T03-VA-0-005-X-N	Network camera in a stainless steel housing (IP67) Minimal illumination: 1.0 lx Horizontal angle: 80° Video compression: H.264, MJPEG Resolution: 1280 x 800 to 160 x 90 Ambient temperature limit: -5°C < T _{amb} < 50°C See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8525 8019



ToughCam Series

	product / model	description
new!	ToughCam HD	Network camera in a stainless steel housing (IP67)
	T03-VA2-0-005-X-N	Minimal illumination: 1.0 lx
		Horizontal angle: Depending on lens
		Video compression: H.264, MJPEG
		Resolution: Up to 3MP
	· · ·	Lens mount type: CS Mount
	C C	Protection level: IP 67 (IEC / EN 60529)
		Ambient temperature limit: $-10^{\circ}C < T_{amb} < 50^{\circ}C$
		See data sheet for technical data - www.samcon.eu
		Product group: A, tariff number: 8525 8019

ToughCam Options

product / model	description
ToughCam,,K2" T03- <u>VA</u> -X-XXX-X-X	Option "K2" (surcharge): Option with 90° angle flange. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019
ToughCam,,K2" T03- <u>VA2</u> -X-XXX-X-X	Option "K2" (surcharge): Option with 90° angle flange. The cable gland is laterally introduced into the flange. Product group: A, tariff number: 8525 8019
ToughCam "pin free" T03-VAX-X-XXX-X-X	Option "pin free" (surcharge): Version with an even VA housing without pin attachment. Suitable for flange fixation as well as hose clips Product group: A, tariff number: 8525 8019
ToughCam vario "long range" T03-XX-X-XXX-X-L	Option "long range" (surcharge): Version with passive two-wire transmitter. Transmission range up to 500m. Attention: Can only be used with VZT-21B/TB two-wire receiver. Product group: A, tariff number: 8525 8019
ToughCam Serie T03-XX-X-XXX-X- <u>L</u>	Option housing heating (surcharge):Only available for minZoom and niteZoom products.Equipped with a self regulating heater for housingExplosion protection (gas):Ex II 2G Ex d IIB T6 GbExplosion protection (dust):Ex II 2D Ex t IIIC T80°C Db IP67Protection level:IP 67 (IEC / EN 60529)Ambient temperature limit: $\underline{-20^{\circ}C} < T_{amb} < 50^{\circ}C$ Product group:A, tariff number:8525 8019





Hytec DTR120ZEXPEVIWP wih stainless steel housing

Ex Dome cameras

The Hytec DTR120ZEXPEVIWP is a dome camera approved for gas explosion risk zones in accordance with EU directive 94/9/EC (ATEX).

The dome camera is mechanically very well manufactured and in comparison with classical PTZ systems an extreme lightweight. It comes with 5 m cable and is 100% compatible with our ExCam Series.

product / model	description
Hytec DTR120ZEXPEVIWP	Ex-Dome camera with stainless steel housing (analoge) Housing: L = 260 mm, Dmax = 155 mm, Weight = 8 kg, protection level: IP 68 (5 bar) Explosion protection: Ex d IIC T6 Temperature range: -20 to +55 °C 18 x analoge zoom, 1/4"CCD image sensor Sensitivity: 0.7 lx, 0.01 lx without IR filter Control interface: PELCO-D@RS485 Cable outlet with certified cable gland Delivery includes 5 m cable See data sheet for technical data - www.samcon.eu Product group: C
Hytec DTR120ZEXPEIPWP	 Ex-IP-Dome camera with stainless steel housing (digital) Housing: L = 260 mm, Dmax = 155 mm Weight = 8 kg, protection level: IP 68 (5 bar) Explosion protection: Ex d IIC T6 Temperature range: -20 to +55 °C Video compression: Motion JPEG und MPEG4 Resolution: Max.: 768 x 576 (PAL) or 704 x 480 (NTSC) Min.: 176 x 144 (PAL) or 160 x 120 (NTSC) Picture frequency: Motion JPEG of up to 30/25 fps at 4CIF MPEG-4 of up to 30/25 fps at 2CIF, of up to 20/17 fps at 4CIF Security: Password protection, IP-Address filtering, HTTPS encoding. Webbrowser: Live view access via webbrowser, pan/tilt commands and pre-settings. Picture rotation and overlapp feasibility (time, date, text) Cable outlet with certified cable gland Delivery includes 5 m cable See data sheet for technical data - www.samcon.eu Product group: C





AmEx PTZ system with stainless steel

AmEx PTZ System

The AMEX PTZ system is an explosion protected stainless steel PTZ positioning system

It is certified and particularly designed and developed to meet the strict requirements of equipment, used in explosion risk areas at which flammable gases and powders can be present.

The system offers an extraordinary performance for the observation of critical processes in explosion risk zones and is therefore the perfect choice for a video surveillance in the chemical as well as in the oil and gas industry.

	product / model	description
new!	AMEX PTZ MPX-X-PVW000A-XXX-X	 PTZ camera according to RL 94/9/EG (ATEX) and IECEx Explosion protection (gas): Ex d IIC T6 Ta -40°C to 60°C Gb Explosion protection (dust): Ex tb IIIC T85°C Ta -40°C to 60°C Db Protection level: IP 66 (IEC / EN 60529) Material: Electro polished stainless steel AISI 316L Pan/Tilt speed: 0.1 ° - 100 ° / s Tilt: -90 ° / +90 ° Day / night function Analog zoom factor: 36x Control protocol: Pelco-D@485 and others (q.v. data sheet) All required cable glands are included. See data sheet for technical data - www.samcon.eu
new!	AMEX PTZ MPX-T2-PAW0000A-XXX-X	Product group: BPTZ camera with analoge and IR camera according to RL 94/9/EG (ATEX) and IECExExplosion protection (gas):Ex d IIC T6 Ta -40°C to 60°C GbExplosion protection (dust):Ex tb IIIC T85°C Ta -40°C to 60°C DbProtection level: IP 66 (IEC / EN 60529)Material: Electro polished stainless steel AISI 316LPan/Tilt speed: 0.1 ° - 100 ° / sTilt: -90 ° / +90 °Day / night functionAnalog zoom factor: 36xControl protocol: Pelco-D@485 and others (q.v. data sheet)All required cable glands are included.See data sheet for technical data - www.samcon.euProduct group: B





rangeEXtender (air) at pneumatic drive

Ex PTZ Drives

The **rangeExtender** systems extend the viewing range of the ExCam series. Depending on the application, pan and tilt units can be used as stand alone applications (<u>only</u> pan or <u>only</u> tilt), or can be combined as a pan-and-tilt-system.

In conjunction with the **ExCam HD** or **ExCam IP** which generally supports digital PTZ (ePTZ), all requirements of a pan-tilt-system in explosion risk zones are met.

product / n	nodel	description
rX-air PAN		Pneumatic Ex-pan drive according to RL 94/9/EG (ATEX) Torque at 6 bar: 5Nm Max. swing angle: 270° Operating medium: Compressed air according to ISO 8573-1:2010 [7:-:-] Ambient temperature limit: -10°C to +60°C Product group: C
rX-air TILT		Pneumatic Ex-tilt drive according to RL 94/9/EG (ATEX) Torque at 6 bar: 5Nm Max. swing angle: 135° Operating medium: Compressed air according to ISO 8573-1:2010 [7:-:-] Ambient temperature limit: -10°C to +60°C Product group: C
rX-e PAN		Electrical Ex-pan drive according to RL 94/9/EG (ATEX) Operating time: 25(21)s/90° Torque: 6Nm Ambient temperature limit: -20° to +60°C Power supply: 230V, 50(60)Hz In accordance with EN 50014: Ex II 2G EEx de IIC T6 Waiting time: 40 minutes Certification: TÜV 03 ATEX 2167 Protection level: IP 65 Potentiometer at 270° Product group: C
rX-e TILT		Electrical explosion proof tilt drive in accordance with RL 94/9/EG (ATEX) Operating time: 25(21)s/90° Torque: 6Nm Ambient temperature limit: -20° to +60°C Power supply: 230V, 50(60)Hz In accordance with EN 50014: Ex II 2G EEx de IIC T6 Waiting time: 40 minutes Certification: TÜV 03 ATEX 2167 Protection level: IP 65 Potentiometer at 90° Product group: C



(Ex) Lighting systems

Process and object lighting are obligatory in explosion risk zones and hazardous areas. The right combination of lighting equipment and the usage of fast camera lenses is essential to get crisp and sharp images. The following lighting systems are the perfect match for the ExCam series; using the same pressure-proof housings. Almost all lighting systems are available for non-explosion risk zones also.

Ex-flood lights

product / model	description
ChemLux FHEL d LED-S K1 sp	Lighting for explosion risk zones 230-240VAC, 7W, Ta -20°C to +40°C Explosion protection (gas): Ex II 2G Ex d IIC T6 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T80°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Includes 5 m cable H05GG-F 3x1.5 mm ² See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 9405 4000
ChemLux FKEL 20 dH	Lighting for explosion risk zones 24V AC/DC, 20W , Ta -20°C to +40°C Explosion protection (gas): Ex II 2G Ex d IIC T4 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T130°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Includes 5 m cable H05GG-F 3x1.5 mm ² See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 9405 4000
ChemLux FKEL 50 dH	Lighting for explosion risk zones 24V AC/DC, 50W, Ta -20°C to +40°C Explosion protection (gas): Ex II 2G Ex d IIC T3 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T195°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Includes 5 m silicon cable OilflexHeat180 EWKF 3G1Heat180 EWKF 3G1 See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 9405 4000
ChemLux R100 deH	Lighting for explosion risk zones 24V AC/DC, 100W, Ta -20°C bis +40°C Explosion protection (gas): Ex II 2G Ex d IIC T3 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T195°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Includes 5 m cable H05GG-F 3x1.5 mm ² See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 9405 4000
EdelEx 20 dH K1	Lighting for explosion risk zones 24V AC/DC, 20W, Ta -20°C to +40°C Explosion protection (gas): Ex II 2G Ex d IIC T4 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T130°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Includes 5 m silicon cable OilflexHeat EWKF 2X0.75 See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 9405 4000
EdelEx 50 dH K1 (T3)	Lighting for explosion risk zones 24V AC/DC, 50W, Ta -20°C to +60°C Explosion protection (gas): Ex II 2G Ex d IIC T3 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T195°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Includes 5 m silicon cable OilflexHeat 180 EWKF 3G1.5 See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 9405 4000



Ex- flood lights

product / model	description
EdelEx 50 dH K1 (T4)	Lighting for explosion risk zones 24V AC/DC, 50W, Ta -20°C to +40°C Explosion protection (gas): Ex II 2G Ex d IIC T4 Gb Explosion protection (dust): Ex II 2D Ex t IIIC T130°C Db IP67 Protection level: IP 67 (IEC / EN 60529) Includes 5 m silicon cableÖlflexHeat180 EWKF 3G1,5 See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 9405 4000
Wall bracket WMB-S	 Wall bracket (stainless steel) Manual pan angle: 360° Manual tilt angle: 90° Includes hinge and mounting in accordance with housing identity code: WMB-S-AL: for Chemlux FHEL/FKEL WMB-S-VA: for EdelEx20 WMB-S-VA2: for EdelEx50 WMB-S-R100: for Chemlux R100 WMB-S-0: without hinge Product group: A, tariff number: 8529 9092
Twin-Adapter WMB-TA	Twin Adapter (stainless steel) Manual pan angle: 360° Manual tilt angle: 90° Includes hinge and mounting for left and right side in accordance with housing identity code. Example: WMB-TA-VA-VA: left and right for housing "VA" Product group: A, tariff number: 8529 9092
Hood WPR	Hood (stainless steel) Inclusive mounting for housing: WPR-AL: for Chemlux FHEL/FKEL WPR-VA: for EdelEx20 WPR-VA2: for EdelEx50 WPR-R100: for Chemlux R100 Product group: A, tariff number: 8529 9092
Hinge attachment SCH	Hinge attachment "SCH" Easy mounting on round sight glasses. In accordance with DIN 28120/28121 (or similar). Includes mounting for housing: SCH-AL: for Chemlux FHEL/FKEL SCH-VA: for EdelEx20 SCH-VA2: for EdelEx50 SCH-R100: for Chemlux R100 Product group: A, tariff number: 8529 9092
Flange mounting R	Flange mounting «R» Easy mounting for screw and sight glass fittings similar DIN 11851 (milk pipe screws) as well as flow indicator sight glass fittings. Mounting material of housing: R-AL: for Chemlux FHEL/FKEL R-VA: for EdelEx20 R-VA2: for EdelEx50 R-R100: for Chemlux R100 Product group: A, tariff number: 8529 9092



(Ex) Audio components

The ConnectionRail series converts video, audio, and binary signals into Ethernet-network streams and makes them available over long distances.

As part of the ConnectionRail series, ATEX certified equipment for use in hazardous areas as well as non-ATEX equipment for industrial control environments are available. Interface diversity makes our ConnectionRails solve every digitalization task. Cameras of renowned manufacturers can be controlled via RS232/RS422 or RS485 interface network-based. Explosion proof speakers, intrinsically safe microphones, and DECT base stations can be connected. Networking can be realized via fiber optic cable, copper Ethernet or wireless.

Analog devices

product / model	description
ExMic WM-48	Intrinsically safe, dynamic wall microphoneHousing: shock-resistant plasticColour: blackDimensions: 85 mm x 85 mm x 77.5 mmWeight: ca. 320 gElectrical connections: terminals 2 x 0.082.5 mm²KLE for cable 47 mmProtection level: IP 54 in accordance with DIN EN 60529Temperature range Betrieb: -40°C to +60°CSee data sheet for technical data - www.samcon.euProduct group: C
Exi separation stage	Exi separation stage Ex-i for ExMic Safety data: U0 = 1,6 V, I0 = 15 mA Po = 6 mW Certificates: PTB 01 ATEX 2088; PTB 01 ATEX 2135 Product group: C
ExSpeak H60 EExeNTIIB	H 60 EExeNT,IIB EX-horn speakers 20 Watt/10 Material/type: Aluminum alloy/ RAL 7031 Mounting: Bracket Connection: Terminal Net weight: 5.0 kg Protection level: IP 67 Temperature range: -50°C to +50°C EEx de IIC T5 See data sheet for technical data - www.samcon.eu Product group: C
Amplifier FP-PA20A	70V/100V Audio-Amplifier 20 Watts 20 Watts RMS constant power supply amplifier 70 V and 100 V exits (see data sheet for more technical data - www.samcon.eu) Product group: C



DECT components

product / model	description
DECT ExNF Interface TO2	DECT base station for explosion risk zones - CT-DECT Interface 4-fold in alloy housing - External antenna via SMA-socket - Video server controls process via terminal strip - LED visualising of process via terminal strip - Audio Line IN and Audio Line OUT connection via terminal strip - Mounting via auf profile rails - Explosion protection (Gas): Ex IIB - Explosion protection (dust): Ex IIIC See data sheet for technical data - www.samcon.eu Product group: C
CT-DECT ATEX Headset Art no. 1407100	Use up to 4 CT-DECT ATEX headsets with a range of up to 200 meters. Hands-free. Communicate with control room or colleagues in the field at the same time without having to press any buttons. - VK cover orange - Gooseneck microphone - Microphone On/Off - Speaker On/Off - Li-Po Accumulator 3.7V/1250mAh - 4-contacts charging jack for Charger 0910135 - Ex II 2 G Ex ib IIB T4 See data sheet for technical data - www.samcon.eu Product group: C
CT-DECT ATEX Headset Art no. 1407200	Same as art no. 1407100 but with dynamic throat microphone See data sheet for technical data - www.samcon.eu Product group: C
CT-DECT ATEX Headset Art no. 0910135	Charger for CT-DECT Headset Ex Includes network adaptors for Europe Product group: C



Mounting & accessories

All accessories have been thoroughly tested with regard to their use in industrial zones, reflecting the highest quality standards. Accessories for explosion risk zones are in accordance with the current norms; DIN EN 60079-0,-14, regulation 94/9/EG as well as the norms for the applicable explosion protection.

Mounting & accessories

product / model	description
Wall bracket WMB-S	Wall bracket (stainless steel) Manual pan angle: 360° Manual tilt angle: 90° Includes hinge and mounting in accordance with housing identity code: WMB-S-AL: for T03-AL WMB-S-VA: for T03-VA WMB-S-VA2: for T03-VA2 WMB-S-R100: for Chemlux R100 WMB-S-0: without hinge Product group: A, tariff number: 8529 9092
Twin-Adapter WMB-TA	Twin Adapter (stainless steel) Manual pan angle: 360° Manual tilt angle: 90° Includes hinge and mounting for left and right side in accordance with housing identity code. Example: WMB-TA-VA-VA: left and right for housing "VA" Product group: A, tariff number: 8529 9092
Hood WPR	Hood (stainless steel) Inclusive mounting for housing: WPR-AL: for T03-AL WPR-VA: for T03-VA WPR-VA2: for T03-VA2 WPR-R100: for Chemlux R100 Product group: A, tariff number: 8529 9092
Hinge attachment SCH	Hinge attachment "SCH" Easy mounting on round sight glasses. In accordance with DIN 28120/28121 (or similar). Includes mounting for housing: SCH-AL: for T03-AL SCH-VA: for T03-VA SCH-VA2: for T03-VA SCH-VA2: for T03-VA2 SCH-R100: for Chemlux R100 Product group: A, tariff number: 8529 9092
Flange mounting R	Flange mounting «R» Easy mounting for screw and sight glass fittings similar DIN 11851 (milk pipe screws) as well as flow indicator sight glass fittings. Mounting material of housing: R-AL: for T03-AL R-VA: for T03-VA R-VA2: for T03-VA R-R100: for Chemlux R100 Product group: A, tariff number: 8529 9092
Wide angle lens HR0.6-VA	Wide angle lens for T03-VA Two lenses, glued into stainless steel flange HR = 0.6 Inner lens: D=36 mm, N-BK7 Outer lens: D=56 mm, N-LASF45 Product group: A, tariff number: 8529 9092



Mounting & accessories

Thermoisolator THERM-VAThermo isolator for flange T03-VA For installation at hot sight glasses or for reducing light incidences Colour: black Temperature range: -45°C to +100°C Durability: weatherproof, ozone proof, non-ageing, acid resistant, alkali resistant Characteristics: extremely flame resistant, abrasion and impact resistant. Electrically pu Product group: A, tariff number: 8529 9092Ex-e Terminal box ExTB-2Terminal box for analog and digital ExCam systems Gas – Explosion proof: Ex II 2 G Ex e II T6 Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66 Material: Polyester resin, dimensions: 115 x 115 x 64 mm	
Colour: black Temperature range: -45°C to +100°C Durability: weatherproof, ozone proof, non-ageing, acid resistant, alkali resistant Characteristics: extremely flame resistant, abrasion and impact resistant. Electrically pu Product group: A, tariff number: 8529 9092Ex-e Terminal box ExTB-2Terminal box for analog and digital ExCam systems Gas – Explosion proof: Ex II 2 G Ex e II T6 Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	
Temperature range: -45°C to +100°CDurability: weatherproof, ozone proof, non-ageing, acid resistant, alkali resistantCharacteristics: extremely flame resistant, abrasion and impact resistant. Electrically pu Product group: A, tariff number: 8529 9092Ex-e Terminal box ExTB-2Terminal box for analog and digital ExCam systems Gas – Explosion proof: Ex II 2 G Ex e II T6 Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	
Durability: weatherproof, ozone proof, non-ageing, acid resistant, alkali resistant Characteristics: extremely flame resistant, abrasion and impact resistant. Electrically pu Product group: A, tariff number: 8529 9092Ex-e Terminal box ExTB-2Terminal box for analog and digital ExCam systems Gas – Explosion proof: Ex II 2 G Ex e II T6 Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	
Characteristics: extremely flame resistant, abrasion and impact resistant. Electrically product group: A, tariff number: 8529 9092 Ex-e Terminal box ExTB-2 Terminal box for analog and digital ExCam systems Gas – Explosion proof: Ex II 2 G Ex e II T6 Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	
Product group: A, tariff number: 8529 9092 Ex-e Terminal box ExTB-2 Gas – Explosion proof: Ex II 2 G Ex e II T6 Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	
ExTB-2 Gas – Explosion proof: Ex II 2 G Ex e II T6 Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	uncture-proof
Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	
Material: Polyester resin, dimensions: 115 x 115 x 64 mm	
Protection level: IP 66	
Ambient temperature limit: - 40°C to + 55°C	
Max. power supply: 690 V, max. diameter: 2.5 mm ²	
10 pcs. terminal clamp UT 2,5, description: 1-10, 2 pcs. conductor terminal USLKG 5	
1 pc. TS35 carrier rail TS35 100 mm	
2 pcs. 8161/5-M20-9 screw connection M20x1.5 sw	
Product group: C	
Ex-e Terminal box Terminal box for analog as well as digital ExCam systems	
ExTB-4 Gas - Explosion proof: Ex II 2 G Ex e II T6	
Dust – Explosion proof: Ex II 2 D Ex tD A21 IP66	
Material: polyester resin	
Dimensions: 115 x 115 x 64 mm	
Protection level: IP 66	
Ambient temperature limit: - 40°C to + 55°C Maximum power supply: 690 V	
Maximum diameter: 2.5 mm ²	
10 pcs. terminal clamp UT 2.5, description: 1-10,	
2 pcs. conductor terminal USLKG 5, 1 pc. TS35 carrier rail TS35 100 mm 4 pcs. 8161/	/5-M20-9 screw/
connection M20x1.5 sw	5 1020 5 5000
Product group: C	
Passive two-cable transmitter Passive two-cable sender or receiver for ExCam systems	
VZT-21B/TB The device can be either directly connected to a video server or to an analog monitor.	
It converts the symatrical CVBS signal of the camera into an asymetrical one. CVBS in	
BNC terminal block	
Product group: C	



Power supply (12VDC out)

product / model	description
Tracopower TCL 024-112DC	Top hat rail power supply Power supply (in): 18 V DC - 75 V DC Power supply (out): 12 V DC, power: 24 W Adjustable power supply (out) Suitable for battery charging DC-OK Signal Radio shielding in accordance with EN 55022, Class B and FCC, level B Product group: C
Tracopower TCL 024-112	Top hat rail power supply. Power supply in: 85 V AC - 264 V AC Power supply out: 12 V DC, power: 24 W Adjustable power supply (out) Suitable for battery charging. DC-OK Signal Radio shielding in accordance with EN 55022, Class B and FCC, level B Product group: C
PULS ML30.102	Top hat rail power supply. Power supply (in): 85 V AC - 264 V AC Power supply (out): 12 V DC power: 30 W Adjustable power supply (out) Product group: C
Tracopower TCL 060-112	Top hat rail power supply. Power supply (in): 85 V AC - 264 V AC Power supply (out): 12 V DC, power: 60 W Adjustable power supply (out) Suitable for battery charging DC-OK signal Radio shielding in accordance with EN 55022, Class B and FCC, level B Product group: C

Power supply (24VDC out)

product / model	description
Dehner DUE DUE 15WCP-24V	Universal power supply with interchangeable plug adapter (thus can be used internationally). Device in accordance with EN60601, can be used in medical applications as well. Short circuit protection as well as overload protection, automatic restart Cable length: 1.8m. CE-, TÜV, cUL. EN60601-certified for medical applications. With INLINE fuse class for direct supply of signals and heating (luster terminal).
PULS	Product group: C Top hat rail power supply.
ML15.241	Power supply (in): 85 V AC - 264 V AC Power supply (out): 24 V DC Power: 15 W
	Adjustable power supply (out). Product group: C



Power supply (24VDC out)

product / model	description
Tracopower TCL 024-124	Top hat rail power supply. Power supply in: 85 V AC - 264 V AC Power supply out: 24 V DC Power: 24 W, Adjustable power supply (out) Suitable for battery charging DC-OK Signal Radio shielding in accordance with EN 55022, class B and FCC, level B Product group: C
PULS ML30.100	Top hat rail power supply. Power supply (in): 85 V AC - 264 V AC Power supply (out): 24 V DC Power: 30 W Adjustable power supply (out) Product group: C
PULS ML50.100	Top hat rail power supply. Power supply (in): 85 V AC - 264 V AC Power supply (out): 24 V DC Power: 50 W Adjustable power supply (out) Product group: C
Tracopower TCL 060-124	Top hat rail power supply. Power supply in: 85 V AC - 264 V AC Power supply out: 24 V DC Power: 60 W, Adjustable power supply (out) Suitable for battery charging DC-OK Signal Radio shielding in accordance with EN 55022, class B and FCC, level B Product group: C
PULS ML70.100	Top hat rail power supply. Power supply (in): 85 V AC - 264 V AC Power supply (out): 24 V DC Power: 72 W Adjustable power supply (out) Product group: C
PULS ML100.100	Top hat rail power supply. Power supply (in): 115/230 V AC Power supply (out): 24 V DC Power: 100 W Adjustable power supply (out) Product group: C
Tracopower TCL 120-124	Top hat rail power supply. Power supply (in): 85 V AC - 264 V AC Power supply (out): 24 V DC Power: 120 W Adjustable power supply (out) Suitable for battery charging DC-OK Signal Radio shielding in accordance with EN 55022, class B and FCC, level B Product group: C



Power supply (48V DC out - PoE)

product / model	description
PULS ML50.105	Top hat rail power supply Power supply (in): 85 V AC - 264 V AC Power supply (out): 48 V DC Power: 50 W Suitable for power supply of PoE cameras Product group: C
Tracopower TSP 090-148	Top hat rail power supply Power supply (in): 85-132 V AC / 187-264 V AC Power supply (out): 48 V DC Power: 96 W Suitable for POE cameras. Worldwide usage due to auto range in and international certifications. Ad- justable power supply (out), short circuit protection, overheating protection, over power protection. DC-OK signal, radio shielding in accordance with EN 55011, class B, EN 55022, class B, EN 61000-3-2 Product group: C
PULS ML100.105	Top hat rail power supply Power supply (in): 115/230 V AC Power supply (out): 48 V DC Power: 100 W Suitable for power supply of PoE cameras Product group: C
	Concerning the Traco switching power supply, please note: In case that the model code does not show an extension, screw terminals are used. If the model code shows an extension comprising a "C", spring type terminals are used. Pictures may vary.



Cable & Wiring

	product / model	description
	SKA01	System cable analog Special wiring in accordance with DIN EN 60079-14 Outer diameter: 8.5 mm, bending radius: min.150 mm Video: 1x75Ω Coax AWG 24, Cu shielded RS 232: 2x0.25 mm² closed Cu shielded Power supply camera: 2x0.75 mm² Power supply heating: 2x0.75 mm² See data sheet for technical data - www.samcon.eu Product group: A, tariff number: 8544 4993
new!	SKA02	System cable analog Special wiring in accordance with DIN EN 60079-14 Outer diameter: 9.4 mm, bending radius: min. 150 mm Video: 1x75 Ω Koax AWG 24, Cu shielded Data (physic.): 2x2x0.25 mm² closed Cu shielded Data (protocol): RS232, RS422, RS485 full duplex Power supply heating: 2x0.75 mm² See data sheet for technical data - www.samcon.eu Product group: A
	SKAD01	System <u>cable digital</u> Special explosion proof wiring in accordance with DIN EN 60079-14 Outer diameter: 14.50±0.30 mm Maximum bending radius: 150 mm Material outer cable sheath: PUR – flame retardant in accordance with IEC 60322-1-2 1KW flame Color outer cable sheath: RAL 9005 matt Koax 750HM, 4x0.75 mm ² , 5x1.5 mm ² , 6x2x0.25 mm ² See data sheet for technical data - www.samcon.eu Product group: A
new!	ASKA02	Reineforced system cabel analogSpecial explosion proof wiring in accordance with DIN EN 60079-14Outer diameter: 9.4 mm, bending radius: min. 150 mmVideo: $1x75 \Omega$ Koax AWG 24, Cu shieldedDate (physic.): $2x2x0.25$ mm² closed Cu shieldedData (protocol): RS232, RS422, RS485 full duplexPower supply camera: $2x0.75$ mm²Power supply heating: $2x0.75$ mm²See data sheet for technical data - www.samcon.euProduct group: A
	SKD01	System cable digital Special explosion proof wiring in accordance with DIN EN 60079-14. Outer diameter: Ø 8.7 ±0.3 mm Max bending radius: 10 mm Material outer cable sheath: PUR – flame retardant in accordance with IEC 60322-1-2 1KW flame Composition: 4 x 2 x AWG22/1 shielded Perfect for PoE cameras and cameras with normal power supply. See data sheet for technical data - www.samcon.eu Product group: A more cables upon request



Network components

High-performance CCTV networks require high performance components.

Except for some special applications, IP-based camera networks will, in the long run, prevail over analog networks. The main reasons are as follows:

- 1. When installing an IP-based network system, parts, components and cameras from all manufactures can be used
- 2. All ethernet means (copper, fiber, wireless) can be used as information is transmissioned as TCP/IP
- 3. In IP-based networks, all video images cannot only be viewed on work stations in the control roombut also on standard PCs, notebooks, tablet PCs and smartphones as well! This means that no special hardware, such as controllers or analog monitors, have to be purchased
- 4. Software solutions allow a very high degree of customization. Just one example: Camera views can be embedded either in maps or in flow diagrams
- 5. Unlike with analog networks, IP-based networks can be fully integrated into the PCS
- 6. IP-based camera systems can be accessed worldwide (for example via a secure VPN tunnel). This means that cameras can be controlled and viewed from anywhere in the world and not only from one control room. In addition, the camera history can be sent directly to your desktop

All components, such as the ExCam Series, (Ex)Connection Rails or video servers, are perfectly suitable for our CCTV-networks. Whether you plan a small test or a large industrial network.

Desktop switches

product / model	description
Netgear GS108	GE 8-Port Gigabit-Copper-Switch 8 Autosensing-Gigabit-Copper-Ports with 10/100/1000 MBit/s Auto Uplink, Unmanaged, compact, sturdy metal housing LED displays, external power supply Plug-and-Play-Installation Silent operation (no fan) Product group: C, tariff number: 8517 6200
Netgear GS108P	GE 8-Port Gigabit-Copper-Switch 8 Autosensing-Gigabit-Copper-Ports with 10/100/1000 MBit/s 4 PoE Ports Auto Uplink, Unmanaged, compact, sturdy metal housing LED displays, external power supply Plug-and-Play-Installation Silent operation (no fan) Product group: C, tariff number: 8517 6200
D-LINK DES-1024R+	24-Port Fast Ethernet Switch 2x opt. Fiber Compatible with IEEE 802.3, 802.3u and 802.3x 24 10/100Mbit NWay TP-connections (RJ-45) NWay Autosensing NWay Auto negotiation Expansion slot for one optional 2-Port 100 Mbit Fiber-connection module (SC) Automatic connection to hardware addresses (MAC) Data control (flow-control) with full duplex Back-pressure for half duplex Automatic settings on MDI/MDI-X for every connection Automatic correction of polarity (twisted pair cables) RAM for automatic connection for every plug Product group: C



Industrial fast ethernet switches

product / model	description
MOXA Ethernet Switch EDS-305	5 Port Ethernet Switch in metal housing TX Ports: 5x10/100BaseT(X) thereof: PoE Ports: 0 FX Ports: 0 Temperature: 0 - 60°C Compact and sturdy housing, ideal for industrial usage Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network shortage), redundant power supply Product group: C
MOXA Ethernet Switch EDS-308	8 Port Ethernet Switch with metal housing TX Ports: 8x10/100BaseT(X) thereof: PoE Ports: 0 FX Ports: 0 Temperature: 0 - 60°C Compact and sturdy housing, ideal for industrial usage. Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network shortage), redundant power supply Product group: C
MOXA Ethernet Switch EDS-P308	8 Port Ethernet Switch with metal housing TX Ports: 8x10/100BaseT(X) thereof: PoE Ports: 4 FX Ports: 0 Temperature: 0 - 60°C Compact and sturdy housing, ideal for industrial usage. Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network shortage) Connection for 2 redundant power supplies 24 V DC Product group: C

Industrial gigabit ethernet switches, media converter und firewalls

	product / model	description
new!	MOXA Ethernet Switch EDS-G205	5 Port Ethernet Switch with metal housing TX Ports: 8x10/100BaseT(X) thereof: PoE Ports: 0 FX Ports: 0 Temperature: 0 - 60°C Compact and sturdy housing, ideal for industrial usage. Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network shortage), Connection for 2 redundant power supplies 24 V DC Product group: C
new!	MOXA Ethernet Switch EDS-G308	8 Port Ethernet Switch with metal housing TX Ports: 8x10/100BaseT(X) thereof: PoE Ports: 0 FX Ports: 0 Temperature: 0 - 60°C Compact and sturdy housing, ideal for industrial usage. Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network shortage) Connection for 2 redundant power supplies 24 V DC Product group: C



Industrial gigabit ethernet switches, media converter und firewalls

	product / model	description
new!	• MOXA Ethernet Switch	8 Port Ethernet Switch with metal housing
Hew.	EDS-G308-SFP	TX Ports: 8x10/100BaseT(X) thereof:
		PoE Ports: 0
	MOXA	FX Ports: up to 2
		Temperature: 0 - 60°C
		Compact and sturdy housing, ideal for industrial usage.
	R	Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network
		shortage) Connection for 2 redundant power supplies 24 V DC
		Product group: C
	MOXA Ethernet Switch	5 Port Ethernet Switch with metal housing
new!	EDS-G205A-4PoE	TX Ports: 5x10/100BaseT(X) thereof:
		PoE Ports: 4
		FX Ports: 0
		Temperature: 0 - 60°C
		Compact and sturdy housing, ideal for industrial usage.
	1 8	Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network
		shortage),
		Connection for 2 redundant power supplies 24 V DC
		Product group: C
new!	MOXA Ethernet Switch EDS-G205A-4PoE -1GSFP	5 Port Ethernet Switch with metal housing TX Ports: 5x10/100BaseT(X)
	ED3-0203A-4F0E - 103FF	thereof PoE Ports: 4
		EX Ports: 1
		Temperature: 0 - 60°C
		Compact and sturdy housing, ideal for industrial usage.
		Mounting on DIN-rails (35 mm), 5 year warranty, alarm-function (triggered on power or network
		shortage)
		Connection for 2 redundant power supplies 24 V DC
		Product group: C
new!	MOXA Gigabit SFP Modul SFP-1GSXLC	SFP module for Gigabit Ethernet Multimode FOC transmission In accordance with IEEE 802.3z
	SFP-IGSALC	Differential LVPECL-inlets and out lets
	MOXARA	TTL signal display
		Hot pluggable
		Product of laser class 1, corresponds with EN60825-1
		Product group: C
		Further SFP modules upon request
	MOXA Access Point	WLAN Access Point
	AWK-3121-EU	Wireless 802.11 alb/g, AP/Bridge/Client
	ſ	- 64-bit and 128-bit WEP (Wired Equivalent Privacy)
		- Enable/disable SSID broadcasts
		- WPA/WPA2 (Wi-Fi Protected Access) support
		- IEEE802.1X/RADIUS support
		- Powerful IP packet filters Product group: C
		rioudergroup. e
new!	MOXA Secure Router	Moxa Gigabit Ethernet Firewall
Hevv!	EDR-G903 3-port	Router/Firewall/VPN* All-in-One-solution
		High-performance Gigabit-combi-port (for copper /fiber optic cable)
		WAN redundancy function with 2 WAN interfaces
		and 1 LAN interface
		NAT functions (N-to-1 NAT, 1-to-1 NAT and port forwarding)
		Intelligente PolicyCheck and SettingCheck Tools
		Product group: C



Solutions for 19" Racks

	product / model	description
new!	MOXA RK-4U	19-inch-35mm-mounting rain adapter This rack offers the best solution for industrial BTO switches. In combination with reduntantly executed power supplies, if applicable, it is possible to install all Moxa switches. Product group: C
new!	MOXA 19" managed Switch IKS-G6524-4GTXSFP-HV-HV	Layer 2 Full Gigabit managed Ethernet Switch 20x 10/100/1000BaseTX ports 4x Gigabit SFP Combo ports Power supply: Redundant Product group: C
new!	Hirschmann MACH104-20TX-F	24 Port Gigabit Ethernet Industrial Workgroup Switch (20 x GE TX Ports, 4 x GE SFP combo Ports), Managed, Software Layer 2 Professional Store-and-Forward-Switching IPv6 Ready, fanless design Product group: C
new!	Hirschmann MACH104-20TX-FR	24 Port Gigabit Ethernet Industrial Workgroup Switch with redundant power supply (20 x GE TX Ports, 4 x GE SFP combo Ports), Managed, Software Layer 2 Professional Store-and-Forward-Switching IPv6 Ready, fanless design Product group: C





Video Server

Video servers convert video, audio, and binary signals into Ethernet-network streams, making them available over long distances. Without the applicable protective housing, video servers which are not ATEX certified must not be installed in explosion risk areas (q.v. ExConnection Rail Series).

All SAMCON video servers are 100% compatible with all analog cameras of the ExCam Series, as well as with our video management system SAMCONtrol.

All video servers are delivered with 35 mm carrier rail or mounting plate adapters.

Quad video server (4-fold) Axis Q7404

Single port video server for one video camera

product / model	description
Axis M7001	1-Channel Ethernet video server Video compression: MJPEG and H.264 Maximum transmission rate: 25fps@4CIF DI: 0, DO: 0 Interfaces: 1xRS422/485 Internal recording archive: No, audio: No Required IP addresses: 1 Power supply: PoE (IEEE 802.3af), class 2 See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 8517 62000
Axis M7001-BTO	 1-Channel Ethernet video server - BTO This BTO version comprises the following scope: Connection of the equipment, installation of the applicable PTZ driver, execution and logging of a function as well as quality check. Video compression: MJPEG und H.264 Maximum transmission rate: 25fps@4CIF DI: 0, DO: 0 Interfaces: 1xRS422/485 Internal recording archive: No, audio: No Required IP addresses: 1 Power supply: PoE (IEEE 802.3af), class 2 Product group: B, tariff number: 8517 62000
Axis Q7401	1-Channel Ethernet video server Video compression: MJPEG and H.264 Maximum transmission rate: 25fps@4CIF Digital In/Outputs: 4 (configurable as DI or DO) Interfaces: 1xRS422/485 Internal recording archive: via SD Slot Audio: Full duplex Required IP addresses: 1 Power supply: 9-20 V DC or PoE class 2 See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 8525 5000
Axis Q7401 - BTO	1-Channel Ethernet video server - BTO This BTO version comprises the following scope: Connection of the equipment, installation of the applicable PTZ driver, execution and logging of a function as well as quality check. Video compression: MJPEG and H.264 Maximum transmission rate: 25fps@4CIF Digital In/Outputs: 4 (configurable as DI or DO) Interfaces: 1xR5422/485 Internal recording archive: via SD Slot Audio: Full duplex Required IP addresses: 1 Power supply: 9-20 V DC or PoE class 2 Product group: B, tariff number: 8525 5000



Single Port video server for one video camera

product / model	description
Axis	1-Channel Ethernet video server - BTO
2415 - BTO	This BTO version comprises the following scope:
	Connection of the equipment, installation of the applicable PTZ driver,
	execution and logging of a function as well as quality check.
AUX - 200	Video compression: MJPEG und MPEG-4
	Maximum transmission rate: 25fps@4CIF
	Digital inputs: 4
	Digital outputs: 4
	Interfaces: 1xRS232, 1xRS422/485
	Internal recording archive: no
	Audio: Full duplex
	Required IP addresses: 1
	Power supply: 9-20 V DC via power supply unit (included)
	Includes BNC angle plug, D-SUB plug with solder tags and mounting adapter for 35 mm DIN carrier
	rail.
	Product group: B, tariff number: 8525 5000

Quad Port video server for up to four video cameras

product / model	description
Axis P7214	 4-Channel Ethernet video server Video compression: MJPEG and H.264 Maximum transmission rate per channel: 25fps@4CIF Digital In/Outputs: 4 (configurable as DI or DO) Interfaces: 1xRS422/485 (BUS or DAISY CHAIN!) Internal recording archive: 1 x microSDHC Audio: External microphone, in or line in line level output, audio streams, recording (AU) and uploa- ded (WAV, AU), play clips Required IP addresses: 1 Power supply: 8-20 V DC or PoE class 3 See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 8517 6990
Axis P7214 - BTO	 4-Channel Ethernet video server - BTO This BTO version comprises the following scope: Connection of the equipment, installation of the applicable PTZ driver, pre-wiring of the interfaces via DAISY CHAIN, execution and logging of a function as well as quality check. Video compression: MJPEG and H.264 Maximum transmission rate per channel: 25fps@4CIF Digital In/Outputs: 4 (configurable as DI or DO) Interfaces: 1xRS422/485 (BUS or DAISY CHAIN!) Internal recording archive: 1 x microSDHC Audio: External microphone, in or line in line level output, audio streams, recording (AU) and uploaded (WAV, AU), play clips Required IP addresses: 1 Power supply: 8-20 V DC or PoE class 3 Product group: B, tariff number: 8517 6990
Axis 241Q - BTO	 4-Channel Ethernet video server - BTO This BTO version comprises the following scope: Connection of the equipment, installation of the applicable PTZ driver, execution and logging of a function as well as quality check. Video compression: MJPEG and MPEG4 Max overall transmission rate: 25fps@4CIF Digital inputs: 4 Digital outputs: 4 Interfaces: 1xRS422/485, 1xRS232 Audio: one channel full duplex Required IP addresses: 1 Power supply: 8-20 V DC Product group: B, tariff number: 8525 5000

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Quad port video server for up to four video cameras & accessories

product / model	description
Axis Q7404	4-Channel Ethernet video server Video compression: MJPEG and MPEG4 Maximum transmission rate per channel: 25fps@4CIF
	digital in/out per channel: 4 (configurable as DI or DO) Interfaces: 1xRS422/485 per channel
CLARKE CONTROL	Internal recording archive: no Audio: Half duplex on channel 1 Required IP addresses: 4
-0.00	Power supply: 8-20 V DC It is possible to install different PTZ drivers on each channel
	See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 8525 5000
Axis Q7404 - BTO	4-Channel Ethernet video server - BTO This BTO version comprises the following scope: Connection of the equipment, installation of the applicable PTZ driver,
	pre-wiring of the interfaces via DAISY CHAIN, execution and logging of a function as well as qualit check.
Little	Video compression: MJPEG and MPEG4 Maximum transmission rate per channel: 25fps@4CIF
138800	Digital in/out per channel: 4 (configurable as DI or DO) Interfaces: 1xRS422/485 per channel
	Internal recording archive: no Audio: Half duplex on channel 1 Required IP addresses: 4
	Power supply: 8-20 V DC It is possible to install different PTZ drivers on each channel
Axis	Product group: B, tariff number: 8525 5000 4-Channel Ethernet video server
Q7424-R	Video compression: MJPEG and MPEG4 Maximum transmission rate per channel:15-25fps@4CIF
-////-	Digital in/out per channel: 4 (as DI or DO configurable) Interfaces: 1xRS422/485
55 65	Ethernet: Copper PoE and SFP Slot nternal recording archive: Yes (SD Card) Audio: Full duplex, Required IP addresses: 1
	SPower supply: 8-28 V DC, max. 10 W, 20-24 V AC, max. 15.6 VA Power over Ethernet IEEE 802.3af Class 3
	See data sheet for technical data - www.samcon.eu Product group: C, tariff number: 8525 5000
Axis Q7424-R -BTO	4-Channel Ethernet video server - BTO This BTO version comprises the following scope:
	Connection of the equipment, installation of the applicable PTZ driver, pre-wiring of the interfaces via DAISY CHAIN, execution and logging of a function as well as qualit check.
	Video compression: MJPEG and MPEG4 Maximum transmission rate per channel:15-25fps@4CIF
(343 <u>4</u> , 1343)	Digital in/out per channel: 4 (configurable as DI or DO) Interfaces: 1xRS422/485
	Ethernet: Copper PoE and SFP Slot Internal recording archive: Yes (SD Card)
	Audio: Full duplex, Required IP addresses: 1 SPower supply: 8-28 V DC, max. 10 W, 20-24 V AC, max. 15.6 VA; Power over Ethernet IEEE 802.3af Class 3
	Product group: B, tariff number: 8525 5000
AXIS POE MIDSPAN 1-PORT	1-Channel Power over Ethernet power supply voltage Input voltage: 90 - 264 V AC Darta rate: 10/100 Mbps
	Power over Ethernet (PoE) IEEE 802.3af Compliant Dimensions: 31 x 60 x 145 mm
	Weight: 450 g See data sheet for technical data - www.samcon.eu
	Product group: C, tariff number: 8504 4030





Connection Rail - S/SA

The ConnectionRail series converts video, audio, and binary signals into Ethernet-network streams, making them available over long distances.

As part of the ConnectionRail series, ATEX certified equipment for use in hazardous areas as well as non-ATEX equipment for industrial control environments are available. Interface diversity makes our ConnectionRails solve every digitalization task. Cameras from renowned manufacturers can be controlled via RS422 or RS485 interface network-based.

product / model	description
Connection Rail - S T05-S-00-001	Plug & Play connection and digitalization unit for an analog systemCompact cabinet AE stainless steel 1.4301, for wall mounting (mounting plate (WxHxD200x300x120 mm) included) including an Axis Q741 video server, lever lockers, a switch modepower supply, an ethernet terminal point and coupling relais for external control. System with cableglands completely pre-wired. 1 set of documentation, consisting of circuit diagrams, equipmentdocumentation and Axis parameterizing protocol.ExCam® driver pre-installed and tested.No options for audio connection.See data sheet for technical data - www.samcon.euProduct group: B, tariff number: 8525 6000
Connection Rail - S T05-S-XX-0 <u>1</u> 1	Optional accessory FOC (surcharge): Same as model T05-S-XX-001 but with FOC media converter to connect to Ethernet FX. Product group: B, tariff number: 8525 6000
Connection Rail - S T05-S-XX- <u>1</u> 01	Optional accessory WLAN (surcharge): Same as model T05-S-XX-001 but 380x300x155 mm (WxHxD). Furthermore, device contains one WLAN access point Product group: B, tariff number: 8525 6000
Connection Rail - S "I/O" T05-S-XX-XXX	 Optional "I/O" surcharge per relay package (max. 1): Four binary contacts as couple relay pre-wired. The binary contacts can either be interconnected as digitale inputs or digitale outputs. The "I/O" package allows establishing a simple but effective communication with external devices or systems. For example, in case of a motion detection, the binary outputs allow connecting lights or security gates. By the means of the binary inputs, it is possible to transmit external commands such as recordings to the video system. DO: Maximum specific values: 250V / 6A DI: Potential free contact Product group: B, tariff number: 8525 6000
Connection Rail - SA T05- <u>SA-DE</u> -XX1	Plug & Play connection and digitalisation unit for one ExCam [®] . Same as model T05-S-XX-001 but 380x300x155 mm (WxHxD). Furthermore, the device contains one DECT base station which antenna can be set up in explosion risk zones (q.v. DECT ExNF Interface) Product group: B, tariff number: 8525 6000
Connection Rail - SA T05- <u>SA-AM</u> -XX1	Plug & Play connection and digitalization unit for one ExCam [®] . Same as model T05-S-XX-001 but (WxHxD) 380x300x155 mm. Furthermore device contains one amplifier to connect on speaker in explosion risk zones, and one intrinsically safe separation stage to connect a room microphone in explosion risk zones. Product group: B, tariff number: 8525 6000
Connection Rail - SA (BTO)	Build-to-Order version upon request

Connection Rail - S with stainless steel housing





Connection Rail - Q

with stainless steel housing

Connection Rail - Q/QA

The ConnectionRail series converts video, audio and binary signals in Ethernet-network streams, making them available over long distances.

As part of the ConnectionRail series, ATEX certified equipment for use in hazardous areas, and non-ATEX equipment for industrial control environments are available. Interface diversity makes our ConnectionRails solve every digitalisation task. Cameras of renowned manufacturers can be controlled via RS232/RS422 or RS485 interface network-based.

product / model	description
Connection Rail - Q T05-Q-00-001	 Plug & Play connection and digitalization unit for four ExCam® Compact cabinet AE stainless steel 1.4301, for wall mounting (mounting plate (WxHxD 200x300x120 mm) included) including an Axis Q7404 video server, lever lockers, switch mode power supply and Ethernet terminal point. System with cable glands completely pre-wired. 1 set of documentation, consisting of circuit diagrams, equipment documentation and Axis parameterizing protocol. ExCam® driver pre-installed and tested. No options for audio connection. See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
Connection Rail - Q T05-Q-XX-X <u>1</u> 1	Option accessory FOC (surcharge): Same as model T05-Q-XX-001 but with FOC media converter to connect to Ethernet FX Product group: B, tariff number: 8525 6000
Connection Rail - Q T05-Q-XX- <u>1</u> 01	Option accessory WLAN (surcharge): Same as model T05-Q-XX-001 but 380x300x155 mm (WxHxD). Furthermore, device contains one WLAN access point. Product group: B, tariff number: 8525 6000
Connection Rail - Q "I/O" T05-Q-XX-XXX	Option "I/O" surcharge per relay package (max. 4): Four binary contacts as couple relay pre-wired. The binary contacts can either be interconnected as digitale inputs or digitale outputs. The "I/O" package allows establishing a simple but effective communication with external devices or systems. For example, in case of a motion detection, the binary outputs allow connecting lights or security gates. By the means of the binary inputs, it is possible to transmit exter- nal commands, such as recordings, to the video system DO: Maximum specific values: 250V / 6A DI: Potential free contact Product group: B, tariff number: 8525 6000
Connection Rail - QA T05- <u>QA-DE</u> -001	Plug & Play connection and digitalization unit for four ExCam [®] . Same as model T05-Q-XX-001 the device contains one DECT base station which antenna can be set up in explosion risk zones (q.v. DECT ExNF Interface). Product group: B, tariff number: 8525 6000
Connection Rail - QA T05- <u>QA-AM</u> -001	 Plug & Play connection and digitalization unit for four ExCam[®]. Same as model T05-Q-XX-001 but (WxHxD) 380x300x155 mm. Furthermore, the device contains one amplifier to connect one speaker in explosion risk zones as well as one intrinsically safe separation stage to connect a room microphone in explosion risk zones. Product group: B, tariff number: 8525 6000





Connection Rack - Q/Q²

The **Connection Rack** series converts video, audio and I/O signals into ethernet network streams , making them available over long distances.

Interface diversity makes our ConnectionRails solve every digitalisation task. Cameras from renowned manufacturers can be controlled via RS232/RS422 or RS485 interface network-based.

Connection Rack - Q² im 4HE 19 inch rack

product / model	description
Connection Rack - Q T05-Q-00-001	 Plug & Play connection and digitalization unit for four analog systems 4HE 19 inch slot with one Axis Q7404 video server, lever lockers, switch mode power supply and Ethernet terminal point. System with cable glands completely pre-wired. 1 set of documentation, consisting of circuit diagrams, equipment documentation and Axis parameterizing protocol. ExCam® driver pre-installed and tested. On the rear side, the slot is wired with terminal clamps. See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
Connection Rack - Q ² T05-Q-00-001	 Plug & Play connection and digitalization unit for four ExCam[®] 4HE 19 inch slot with 2 Axis Q7404 video server, lever lockers, switch mode power supply and 2 Ethernet terminal points. System with cable glands completely pre-wired. 1 set of documentation, consisting of circuit diagrams, equipment documentation and Axis parameterizing protocol. ExCam[®] driver pre-installed and tested. On the rear side, the slot is wired with terminal clamps. See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
Connection Rack - Q T05-Q-XX-X <u>1</u> 1	Option accessory FOC (surcharge): Same as model T05-Q-XX-001 but with FOC media converter to connect to Ethernet FX. Product group: B, tariff number: 8525 6000
Connection Rack - Q "I/O" T05-Q-XX-XXX	Option "I/O" surcharge per relay package (Connection Rack Q: Maximum 4; Connection Rack Q²: Maximum 8) Four binary contacts as couple relay pre-wired.The binary contacts can either be interconnected as digitale inputs or digitale outputs.DO: Maximum specific values: 250V / 6A DI: Potential free contact Product group: B, tariff number: 8525 6000
Connection Rack - Q T05-Q-XX- <u>1</u> 01	Optional accessory WLAN (surcharge): Same as model T05-Q-XX-001 but with a WLAN access point Product group: B, tariff number: 8525 6000
Connection Rack - QA (BTO)	Build-to-Order (BTO) versions upon request





ExConnection Rail - Q in Ex-d housing

ExConnection Rail - Q/QA

The ConnectionRail series converts video, audio and binary signals in Ethernet-network streams and makes them available over long distances.

As part of the ConnectionRail series, ATEX certified equipment for use in hazardous areas and non-ATEX equipment for industrial control environments are available. Interface diversity makes our ConnectionRails solve every digitalization task. Cameras from renowned manufacturers can be controlled via RS232/RS422 or RS485 interface network-based.

product / model	description
ExConnection Rail - Q T04-Q-00-001	 Explosion proof connection and digitalisation unit for four ExCam® Explosion proof housing Ex-e for wall mounting includes double-sided mounting plate with Axis video server, lever lockers, switch mode power supply and Ethernet terminal point.System includes KLE completely prewired. 1 set of documentation, consisting of circuit diagrams, equipment documentation and Axis parameterizing protocol. ExCam® driver pre-installed and tested. No options for audio connection. Ex II 2 G Ex de IIC T6 Ex II 2 D Ex td A21 IP66 T80°C UN = 85-240 V AC See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
ExConnection Rail - Q T04-XX-XX-0 <u>1</u> 1	Optional accessory (surcharge): Ethernet ST patch field, intrinsically safe fibre optics transmission range up to 2500 m. Ex II 2 G Ex de [op is] IIC T6 Ex II 2 D Ex td A21 [op is] IP66 T80°C UN = 85-240 V AC See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
ExConnection Rail - Q T04-XX-XX- <u>1</u> 01	Optional accessory (surcharge): W-LAN Access Point allowing wireless transmission of video signals. Ex II 2 G Ex de [op is] [ia] IIC T6 Ex II 2 D Ex td A21 [op is] [ia] IP66 T80°C UN = 85-240 V AC See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
ExConnection Rail - QA T04- <u>Q-DE</u> -001	Option DECT (surcharge):Video server with duplex audio channel. DECT ExNF Interface (DECT base station) and ATEX antenna.Ex II 2 G Ex de [op is] [ia] IIC T6Ex II 2 D Ex td A21 [op is] [ia] IP66 T80°CUN = 85-240 V ACSee data sheet for more technical data - www.samcon.euProduct group: B, tariff number: 8525 6000
ExConnection Rail - QA T04- <u>Q-AM</u> -001	Optional accessory amplifier (surcharge): Video server with duplex audio channel.Amplifier to connect explosion proof speaker. Intrinsically safe separator to connect room microphones. Ex II 2 G Ex de [op is] [ia] IIC T6 Ex II 2 D Ex td A21 [op is] [ia] IP66 T80°C UN = 85-240 V AC See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
ExConnection Rail - Q (BTO)	Build-to-Order (BTO) versions upon request





ExConnection Rail - PoE in Ex-d housing

ExConnection Rail - PoE

High performance PoE switches for explosion risk zones. The ExConnection Rail - PoE is particularly designed to connect our digital PoE cameras or other network participants.

The ExConnection Rail - PoE's centerpiece is a high performance GigE network switch with up to 8 GBit/s TX ports and up to 2 GBit/s FX ports. As an option, the FX ports can also be executed to reflect the ignition protection category [op is]. The ExConnection Rail - PoE allows the connection of up to 8 PoE (Class 2) cameras to. The connection of the GBit/s FX ports is possible over very large distances.

product / model	description
ExConnection Rail - PoE T04-PoE-8TX-0FX()	 High performance PoE Switch for explosion risk zones Explosion proof housing with wall mounting. Interfaces in explosion risk zone: x supply on 3xUT6 glands: 48 V DC or 230 V DC x TX Ports (+,+,-,-,Tx+,Rx-,Rx+) 100Mbit/s on 32xUTTB2.5 x FX Ports () X II 2 G Ex de IIC T6 X II 2 D Ex td A21 IP66 T80°C See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
ExConnection Rail - PoE T04-PoE-7TX-1FX(SFP-1GSXLC)	 High performance PoE Switch for explosion risk zones Explosion proof housing with wall mounting. Interfaces in Ex-e housing: 1 x supply on 3xUT6 glands: 48 V DC or 230 V DC 7 x TX Ports (+,+,-,-,Tx+,Rx-,Rx+) 100Mbit/s on 28xUTTB2.5 Interfaces in Ex-d housing: 1 x FX Ports (SFP-1 GSXLC) Ex II 2 G Ex de IIC T6 Ex II 2 D Ex td A21 IP66 T80°C See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
ExConnection Rail - PoE T04-PoE-6TX-2FX(SFP-1GSXLC)	 High performance PoE Switch for explosion risk zones Explosion proof housing with wall mounting. Interfaces in Ex-e housing: 1 x supply on 3xUT6 glands: 48 V DC oder 230 V DC 6 x TX Ports (+,+,-,-,Tx+,Rx-,Rx+) 100Mbit/s on 24xUTTB2.5 Interfaces in Ex-d housing: 2 x FX Ports (SFP-1 GSXLC) Ex II 2 G Ex de IIC T6 Ex II 2 D Ex td A21 IP66 T80°C See data sheet for technical data - www.samcon.eu Product group: B, tariff number: 8525 6000
ExConnection Rail - PoE (BTO)	It is possible to execute our FOC interfaces in ignition protection category [op is], or alternatively for very long distances, as "Single Mode" FOC. As an option, also a WLAN Access Point can be integrated in the ExConenction Rail - PoE. The Ethernet TX interfaces can be adapted concerning the PoE class as well as concerning the bandwidth. Do not hesitate to ask for additional ExConnectionRail - PoE versions!



Display & Control (HMI)

Many times, displays, control panels and computers reflect customer specific requirements and wishes. This in turn leads to the necessity to design so called Build-to-Order (BTO) versions.

Hence, the components below only show a small variety of commonly used equipment and merely serve to give an idea on the different implementation possibilities in this area. Please do not hesitate to contact us if you have specific requirements - we are more than happy to advise you on additional possibilities or to detail a concept that suits your needs and requirements best.

VISCA controlboards

product / model	description
T03 Control Board VCB-XX	Control your ExCam® without a PC by using the T03 Control Board. Board functions: Zoom, focus, Iris day/night to control one camera.
	VCB-01 = For one camera VCB-02 = For two cameras (surcharge 50€) VCB-03 = For three cameras (surcharge 100€) VCB-04 = For four cameras (surcharge 150€) Product group: C

Analog displays

product / model	description
19" color monitor VMC-19LCD-OPC1	Professional 19" LCD/TFT Display Automatic PAL/NTSC-switch, multilingual, 2D comb filter Resolution: 1280x1024 pixels (SXGA) 2xFBAS, S-Video, RGB and audio-input, high contrast and high luminosity range, fast signal-switching, fast response time, sturdy, compact plastic housing, integrated stand (More displays upon request) Product group: C

(Ex) PC Systeme

product / model	description
Terra PC	Optimized for continuous duty (24/7/365). Equipped with special hardware, specifically designed for
Industry 5000	permanent usage. Units minimize costly downtime
	Intel® Core™ i3-2120 Dual-Core
	3.30 GHz, 3 MB L3, HTT, EIST, EM64T, VT
	Original Windows® 7 Professional 64-Bit
	Includes pre-installed Windows XP-Mode
Contraction of the second	2x 2048 MB DDR3-RAM PC1333
A Real Providence of the	500 GB SATA II 7.200 rpm
	DVD±RW burner
	Product group: C
	Further HMI components upon request





SAMCONtrol[®]

SAMCONtrol is a browser based video management system which provides a common surface in order to configure, administer, and operate cameras.

SAMCONtrol does not require a video client which means that each browser allowing Adobe® Flash can be used as a video client. The reproduction module is designed in an operator friendly way and offers various modes in order to play, search, and display video recordings. Within the play list or history, it is possible to switch between different videos. It is not only possible to display all pictures of the connected cameras in real time but also to control them (PTZ).

Standard monitoring functions such as video sequencing and the display of different split screen modes are feasible. It supports the plant's operating personnel since the cameras can be integrated into and displayed on a map, a flow chart or a floor plan. The map view (road map or topographic map) allows a top view in aerial perspective which is particularly suitable for facilities which are wildly spread. Floor plans, on the other hand, allow an easy and quick access of cameras that are positioned on various levels or places of a facility. As a result, operators in a control center do not have to memorize camera names anymore in order to find the correct ones. Instead, they can comfortably navigate via the floor plan. Due to the high level of personalization, it is even possible for every operator to set his or her own priorities and to adapt the system to reflect their highest degree of control effectiveness.

product / model	description
SAMCONtrol 2.3 4Sources	Browser-based video-management-system MJGEG and H.264 Support up to FullHD. SAMCONtrol Server& Source Configurator for up to 4 sources. SAMCONtrol FullHD Viewscriptbox including: - Fieldview editor - Controlview editor with MAP, ARCHIV, OVERVIEW, LIST and THUMB View Templates - Wall editor mit NxN and RING Templates - Operator Web archive Product group: A
SAMCONtrol 2.3 10Sources	Browser-based video-management-system MJGEG and H.264 Support up to FullHD. SAMCONtrol Server& Source Configurator for up to 10 sources. SAMCONtrol FullHD Viewscriptbox including: - Fieldview editor - Controlview editor with MAP, ARCHIV, OVERVIEW, LIST and THUMB View Templates - Wall editor mit NxN and RING Templates - Operator Web archive Product group: A
SAMCONtrol 2.3 Enterprise	Browser-based video-management-system MJGEG and H.264 Support up to FullHD. SAMCONtrol Server& Source Configurator for unlimited number of sources. SAMCONtrol FullHD Viewscriptbox including: - Fieldview editor - Controlview editor with MAP, ARCHIV, OVERVIEW, LIST and THUMB View Templates - Wall editor mit NxN and RING Templates - Operator Web archive Product group: A











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