 II 2 G Ex pm II T5 -40°C < Ta < +75°C  
Ex pm II T6 -40°C < Ta < +55°C  
Nemko 02 ATEX 474X

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Initials: \_\_\_\_\_


All data subject to change without notice. All dimensions are for commercial purpose only.  
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are manufactured in accordance with the ISO 9001 quality management system, ISO 14001 environmental  
management systems and all Ex products with the IECEx scheme and ATEX directives.



# Product DATA



## Autofocus Zoom Camera PAL 80AFEX Hard Wired (Explosionproof)

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**COMM-CO**

“Communication, today and tomorrow”

Technical Specifications

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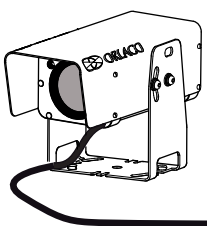
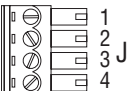
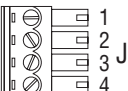
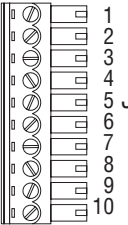
Autofocus Zoom Camera PAL 80AFEX Hard Wired (Explosionproof)

CCD sensor	1/4" type EX view HAD CCD.
Picture elements	752 (H) x 582 (V) (approx. 440 000 pixels).
Resolution	460 TVL.
Lens	f = 4,1 mm (wide) to 73,8 mm (tele). 216x zoom ratio; 18x optical zoom, 12x digital.
Lens speed	from wide optical to tele (optical) 2,1 sec. (f=1,4 to f=3,0 zoom movement speed).
Angle of view (H)	48° (wide) to 2,7° (minimum object distance).
Min. working distance	10 mm (wide), 800 mm (tele).
Min. illumination	0 Lux (f1,4 1/50 sec. PAL) 0,1 Lux (f1,4 1/3 sec. PAL).
S/N ratio	50 dB or more.
TV system	PAL, CVBS, Output: 1 Vtt composite video into 75 ohm.
Construction	Sun cover and housing: aluminium (ALMGSi1). Bracket and mounting parts RVS 316. Suitable for mobile applications with shocks and vibrations.
Protection	Corrosion proof housing black Nituff (PTFE coated according Mil-A-6347A type II offshore proof according IEC 60068-2-52, condense- and watertight IP 67, (10 m under water) according to IEC 60529, dry-nitrogen filled, 1 Bar overpressure monitored by 2 absolute pressure sensors, long term stability 0,1% per year. Voltage barriers for sensor circuit.
Approvals	Specifications are according to CENELEC EN 50016, CENELEC EN 50014 and CENELEC EN 50028. Weather-, shock-, vibration-, corrosion- and explosion proof Nemko 02ATEX474X certificated colour camera Ex pm II T5, -40°..+75°C, suitable for zone 1 and 2. Ex II 2 G (Eex II 2DG for dust applications is possible upon request).
Bracket	Standard bracket, including bolts, nuts and washers. Suitable for mounting hanging, overhead and standing.
Operating temp.	Extended temperature range: Ex pm II T5 -40°C<Ta<+75°C.
Glass	Chemically hardened lens glass, 7x stronger than ordinary glass, scratchproof surface, following "VII Flachgläser" (german std.).
Weight	3 kg (including 10m cable).
Powersupply	14V/Dc via SmartBoard PCB which is an integrated part of Orlaco Ex displays and an integrated part of controlboxes
Power consumption	Temperature <0°C (demister on): 7,2 W & >0°C (demister off): 3,6 W.
Communication	Visca protocol (TTL/CMOS) 9,6 Kbps, 38,4Kbps, Stop bit, 1/2 bit.
Installation	If zoomcamera is supplied with controlboxes, the controlboxes must be mounted outside the EX zone. In case of pressure loss of the zoomcamera the powersupply to the camera will be automatically shutdown, camerapicture will no longer be visible on screen and an alarm buzzer on the PCB will sound. If zoomcamera is connected to Orlaco Ex displays, the complete system can be fitted inside assigned ex zone.
Also included	A potential free contact to activate external alarm devices & an external on/off switch. Key switch selects power on/off and bypass external on/off switch.

**FCC compliance statement:**  
The camera comes under section for commodity codes for electronic equipment. This is known as "Harmonize code: 8525.30.9060" and the importer can check off Block 2 on FCC form which states: "An FCC grant of equipment authorization and an FCC ID are not required, but the equipment complies with FCC technical requirements."  
**Caution:** Any changes or modifications in the construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Camera/ monitor sets are visual aids and objects visible in camera/ monitor systems are smaller or bigger than they appear on screen.

Installation

Cable connections

 <b>060.0430.000874</b> <b>10m Multi cable</b>	White	0.4mm <sup>2</sup>	(Video	Coax core)		1
	Blue	0.4mm <sup>2</sup>	(Video GND	Screen coax)		2
	Red	0.6mm <sup>2</sup>	(Power +14V/DC	)		3
	Black	0.6mm <sup>2</sup>	(Power GND)			4
	Blue	0.22mm <sup>2</sup>	(Pressure switch signal, 3,7V/DC is OK)			1
	Yellow	0.22mm <sup>2</sup>	(Pressure switch power 9V/DC)			2
	Pink		(Focus)	0.22mm <sup>2</sup>		3
	Purple		(Focus on/off)	0.22mm <sup>2</sup>		4
	Red/black		(Zoom tele slow)	0.22mm <sup>2</sup> or Red		1
	White		(0-lux on/off)	0.22mm <sup>2</sup>		2
	Green		(Bright)	0.22mm <sup>2</sup>		3
	Gray		(Zoom tele fast)	0.22mm <sup>2</sup>		4
	White/Black		(Focus)	0.22mm <sup>2</sup> or Black		5
	Brown		(Zoom wide fast)	0.22mm <sup>2</sup>		6
	Green	0.4mm <sup>2</sup>				7
			(Must be connected in ex-d junction box;			8
			<b>NOT</b> connected to housing controlbox)			9
						10

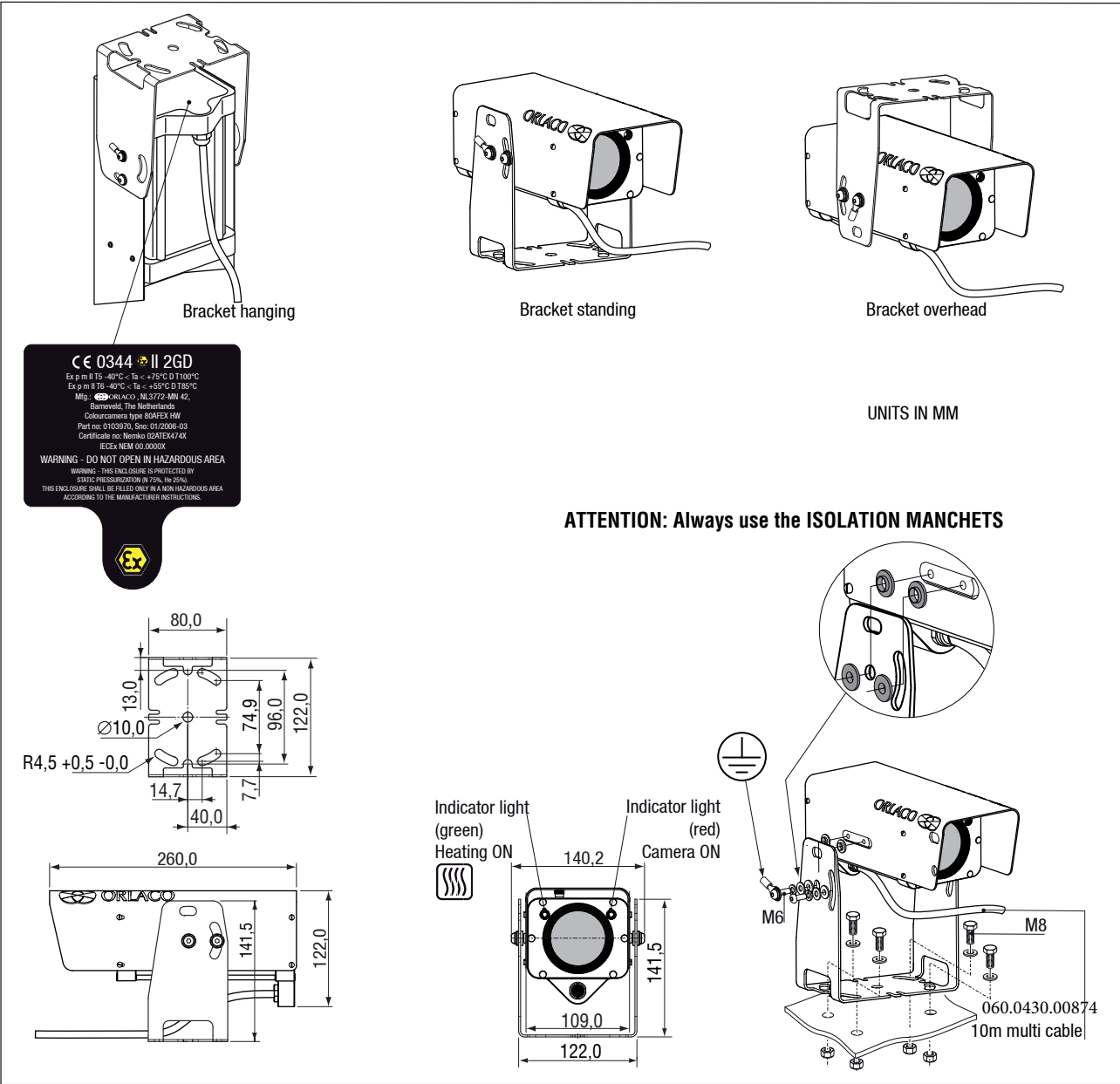
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Dimensions

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Autofocus Zoom Camera PAL 80AFEX Hard wired (Explosion proof)



EC Declaration of conformity

According to Annex XB, ATEX guidelines 94/9/EC  
Name manufacturer: Orlaco Products BV  
Address manufacturer:  
A. Plesmanstraat 42, 3771 MN, Barneveld  
The Netherlands, Europe  
Declares that the product:  
Product name: [Load view system with Eex zoom camera]  
Model number(s):  
[Ex zoom camera] comply with the following products  
specifications:  
Cenelec EN50014-1992, EN50016-1995 and EN50028-1987,  
EMC 95/54/EC

Extra information:  
Products are tested as independent units.  
Notified body CE0344: Kema Quality BV,  
Utrechtseweg 310, 6812 AR ARNHEM  
The Netherlands, Europe

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