

# Fact Sheet

## Hella Rear View Camera

### Description

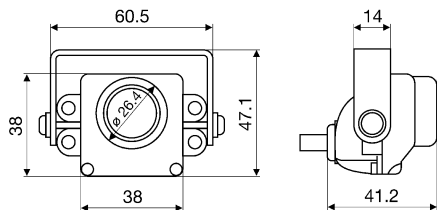
Camera module with compact housing to be mounted inside vehicle components or on vehicle surfaces by using a holder and bracket, in order to transmit a video signal of the desired area to an external display.

The camera will be connected via a water and vibration proof 7-pin plug to an extension cable. The extension cable has connectors for a 12V power supply at the camera side to feed the current from the Reversing lamp to the camera.

The display in the TFT set is configured to switch on automatically, as soon as a video signal has been received. By using a special adapter, additional video signals can be fed into the display to allow for a connection of a DVD player, DVB-T receiver or any other video source. The display also is capable of automatically switching between PAL and NTSC standards, and is certified for automotive use.

### Article Numbers

5BD 166 175 – 001	Camera
8KB 166 530 – 001	Wiring Harness
8KB 169 079 – 001	Wiring Adapter (connects display to Cinch cables)
8KB 169 080 – 001	Wiring Adapter (connects camera to Cinch cables)



### Technical Specifications (Camera only)

*The technical specifications listed below are valid as of April 2006 and are subject to change.*

Current input (nominal).....	12 V DC
Current input range .....	9 ~ 16 V DC
Current Consumption .....	< 3mA
Exterior Dimensions with screw holes (W x H x D) .....	56 x 47 x 38 mm
Exterior dimensions without screw holes (W x H x D) .....	38 x 38 x 38 mm
Depth of lens tube .....	7.9 mm
Diameter of lens tube .....	26.2 mm
Operating Temperature Range.....	-40 ~ 85 °C
Storage Temperature Range.....	-40 ~ 95 °C

Housing Material .....	Aluminium Die-Cast
Surface .....	Anodic Dip Paint, black matt



Optical Sensor Type.....	1/3" CMOS
Output Signal Type .....	NTSC-M (ITU-R BT.470-5)
Output Current .....	1V <sub>PP</sub> at 75Ω resistance, 2V <sub>PP</sub> without resistance
Bandwidth .....	4.2 MHz
Output Impedance.....	75Ω
Signal-to-noise ratio .....	> 40 dB
Resolution .....	510 x 492 Pixels
Output Signals (Pin 1-5).....	Video GND, Video Signal, Shielding, GND, 12V
Focal Length .....	ca. 2.1 mm
Viewing Angle, horizontal .....	120 - 130°
Viewing Angle, vertical .....	85 - 95°
Startup Time, until video signal is received at output .....	70ms
Startup Time, until usable video signal is received at output.....	230ms
Startup Time, until video signal is stabilised .....	1500ms
Connector .....	TYCO 7-pin plug
Plug Article Number .....	TYCO 917 318-4
Mating Plug Article Number.....	TYCO 353 899-4 (watertight) / 353 900-4 (non-watertight)
Electrical Specifications / Tests .....	ISO 16750

## Electromagnetic Compatibility

Conducted Emissions.....	Level of fault elimination 4, according to CISPR 25 2 <sup>nd</sup> edition, FCC Part 15, CISPR 22
Radiated Emissions .....	Level of fault elimination 5, according to CISPR 25 2 <sup>nd</sup> edition, FCC Part 15, CISPR 22 e1 mark in accordance with RL 2004/104/EG
Electrical disturbance by conducting and coupling.....	Impulse 1, 2a, 2b, 3a, 3b, 4, severity 4, ISO 7637-2 Load dump limited to U <sub>S</sub> = 32V 12Ω, 200ms by protective diode
Resistance to radiated disturbances.....	In accordance with ISO 11452-3: 1 ~ 200MHz, irradiation by 100V/m In accordance with ISO 11452-2: 200MHz ~ 1GHz, irradiation by 50V/m
ESD resistance .....	according to ISO TR 10605, 15kV

