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New US30 series:

Easy to use and high versatility

DATASENSOR introduces the new **US30** ultrasonic sensors with M30 housing and thus enlarges the measurement and detection product portfolio. All the models present radial acoustic emission and the versions may have the following features:

- configurable PNP/NPN NO/NC bipolar digital output;
- 0-10V analogue output;
- 4-20mA analogue output.

The 100mm...1m or 200mm...2m detection field has to be highlighted amongst the characteristics. The response time is fixed in the models with digital output (45ms for 1m models and 92ms for the 2m models) and is selectable in the models with analogue output (45ms or 105ms for 1m models and 92ms or 222ms for 2m models). Electrical connection can be carried-out using standard M12 5-pole connector.

The sensors can be easily configured using the TEACH-IN procedure, obtained using the two push-buttons on the rear side of the sensor, or using the REMOTE input present on the connector. Two signaling LEDS clearly signal the operating status. The temperature compensation function corrects the sound speed changes due to temperature variations and maintain the sensor precision in all situations, thus guaranteeing a

minimum resolution of 0.5mm for the 1m models and 1mm for the 2m models.

These functions make the **US30** ultrasonic sensors extremely versatile and thus making the series a valid alternative to other typical detection technologies in critical applications in presence of fog, dust or smoke. Moreover, these sensors can contribute in greatly improving the quality and productivity in industrial automation systems thanks to the use ease and flexibility.

The new **US30** DATASENSOR ultrasonic sensors detect all objects independently from their sound-absorbent material, transparency and color, making them the ideal solution in many different applications in sectors like automotive, packaging, machine tool and material transformation processes.



- Models with configurable NPN/PNP NO/NC bipolar digital output
- Models with 0-10V and 4-20mA analogue output
- Sensor outputs can be programmed separately
- Models with 100mm...1m or 200mm...2m operating range
- Minimum resolution: 0.5 mm for 1m models and 1mm for 2m models
- Analogue output linearity: $\pm 0,25\%$ measured distance
- Minimum detection window: 10mm
- Response time (models with digital output): 48ms for 1 m models and 96ms for 2m models
- Response time (models with analogue output): selectable 45ms or 105ms for 1 m models and 96ms or 222ms for 2m models
- Simple and quick configuration using the TEACH-IN procedure
- REMOTE input for quicker and safer sensor remote configuration
- $-40...+70^{\circ}\text{C}$ operating temperature with temperature variation compensation function

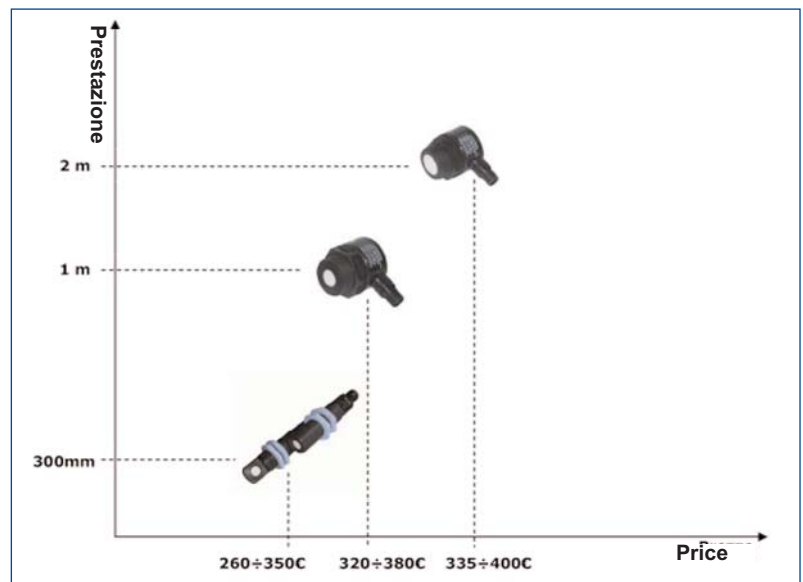
APPLICATIONS

The new **US30** series is ideal especially for applications that require a medium-high working distance and precise resolution. Typical applications include material transformation and machine tool processes as well as liquid and/or solid level detection.

- Automotive
- Packaging and Packing
- Material transformation processes
- Machine tool
- Crane guidance
- Position measurement on automatic machines for component testing and assembling
- Liquid and/or solid level detection

POSITIONING

The DATASENSOR range now covers an important market share, offer many different solutions with various performance/price ratios that satisfy customer requirement. The range includes M18 tubuar sensors with 300mm detection as well as M30 sensors with 1 or 2m detection fields.



MAIN COMPETITORS

The following table shows the main competitor products present in the ultrasonic sensor market, that have similar dimensions and performances.

Datasensor	US30-PR-5-N13-IH	US30-PR-5-N13-VH	US30-PR-5-N23-IH	US30-PR-5-N23-VH	US30-PR-5-N13-OH	US30-PR-5-N23-OH
Microsonic	mic+130/IU/TC		mic+340/IU/TC		mic+130/D/TC mic+130/E/TC	mic+340/D/TC mic+340/E/TC
Baumer	UNAM 30I6103/S14 UNAM 30I6803/S14	UNAM 30U6103/S14	UNDK 30I6104/S14	UNDK 30U6104/S14	UNAM 30N1104/S14 UNAM 30P1104/S14 UZAM 30N6103/S14 UZAM 30P6103/S14	URDK 30P6104/S14
Hyde Park	XX9V3A1C2M12 SM956A-10XXXX SM956A-11XXXX	XX9V3A1F1M12 SM956A-12XXXX SM956A-13XXXX	SM956A-40XXXX SM956A-41XXXX	SM956A-42XXXX SM956A-43XXXX	SM950A-120000 SM950A-130000	SM950A-400000 SM950A-410000
Siemens	3RG61 13-3BF00	3RG61 15-3BF00	3RG61 13-3GF00	3RG61 15-3GF00	3RG60 13-3AF00	3RG60 15-3AF00
Sick	UM30-12113	UM30-13113	UM30-12113	UM30-13113	UM30-12112	UM30-13112

MODEL SELECTION TABLE

MODEL	DESCRIPTION	ORDER N°
US30-PR-5-N13-IH	100 ... 1000mm, 4-20mA analogue	95B040060
US30-PR-5-N13-OH	100 ... 1000mm, NPN and PNP	95B040100
US30-PR-5-N13-VH	100 ... 1000mm, 0-10V analogue	95B040070
US30-PR-5-N23-IH	200 ... 2000mm, 4-20mA analogue	95B040080
US30-PR-5-N23-OH	200 ... 2000mm, NPN and PNP	95B040110
US30-PR-5-N23-VH	200 ... 2000mm, 0-10V analogue	95B040090



SG-LS: Lens shield

New safety accessory

The SG-LS Lens Shield accessory, composed of a PMMA shield that can be mounted on the front glass of the safety light curtain, ensures an effective protection against chips and incandescent drops, deriving from material workings near the safety light curtain.

The accessory is available for all the models of the SG2, SG4 and SE series.

Five shields are present inside the package guaranteeing sufficient spare parts in high wear applications.

The Lens Shield can be easily installed thanks to the fixing brackets supplied in the package that exploit the side groove of the safety light curtain. It can also be quickly replaced when the glass is

damaged.

Moreover, the operator doesn't have to clean the light curtain glass from previous wastes, such as glue or residual garnish.

- 3mm polycarbonate shield
- Protects light curtain against chips and incandescent drops
- Available for all models (all heights available of the SG2, SG4 and SE series)
- Easy to install and replace
- Doesn't leave glue deposits or other residual material on the light curtain

HIGHLIGHTS



MODEL SELECTION TABLE

MODEL	DESCRIPTION	ORDER N°
SG-LS 150	LENS SHIELD H=150mm	95ASE1450
SG-LS 300	LENS SHIELD H=300mm	95ASE1460
SG-LS 450	LENS SHIELD H=450mm	95ASE1470
SG-LS 600	LENS SHIELD H=600mm	95ASE1480
SG-LS 750	LENS SHIELD H=750mm	95ASE1490
SG-LS 900	LENS SHIELD H=900mm	95ASE1500
SG-LS 1050	LENS SHIELD H=1050mm	95ASE1510
SG-LS 1200	LENS SHIELD H=1200mm	95ASE1520
SG-LS 1350	LENS SHIELD H=1350mm	95ASE1530
SG-LS 1500	LENS SHIELD H=1500mm	95ASE1540
SG-LS 1650	LENS SHIELD H=1650mm	95ASE1550
SG-LS 1800	LENS SHIELD H=1800mm	95ASE1560
SG-LS-2-050	LENS SHIELD H=500mm	95ASE1570
SG-LS-3-080	LENS SHIELD H=800mm	95ASE1580
SG-LS-4-090	LENS SHIELD H=900mm	95ASE1590
SG-LS-4-120	LENS SHIELD H=1200mm	95ASE1600

NOTE: The contents of each package is necessary for each unit (Tx or Rx). Consequently, two product package have to be purchased to protect a safety light curtain couple.

Moreover, an accessory kit is available, composed of 4 elastic fasteners to ease the replacement of the glass when the product is installed vertically.

MODEL	DESCRIPTION	ORDER N°
SG-LS-MC4	4PCS LENS SHIELD ELASTIC FAST.	95ASE1810

GOST and C-TICK

Speeding up customs clearance

The safety light curtains of the SE-SF2-SG series are now certified according to the GOST requirements ideal for the Russian market. The paper certificate is available on request.



For the Australian and New Zealand market, the DATASENSOR sensors and safety light curtains comply to the EMC emission requirements fixed by the competent authorities in order to have the C-TICK certification. The registered (coded) Australian importer is **DATALOGIC PTY LTD**, and "CODE NUMBER" is **N2468**.



Please visit the following links for more information on the GOST and C-TICK:

<http://www.it.gost-r.info>

http://www.acma.gov.au/WEB/STANDARDS/pc=PC_2796

New 2006/42/CE M.D.

Beginning from **DECEMBER 2009** all manufacturers must plan and construct machines conforming to the new **2006/42/CE Machine Directive**. Datasensor will adapt all its safety products according to the new Directive requirements using a new TÜV Certification, UE competent body for Machine

Directive, conforming to the EN 61496-1 product standard requirements (new 2004 ed.). The SG2, SG4, SE Plus series have already been developed and tested complying to the new Machine Directive and the latest edition of the EN 61496-1 and 2 standards.

Risk assessment

Datasensor speeds up things

Introduction of the EN ISO 13849-1 and EN/IEC 62061 Regulations.

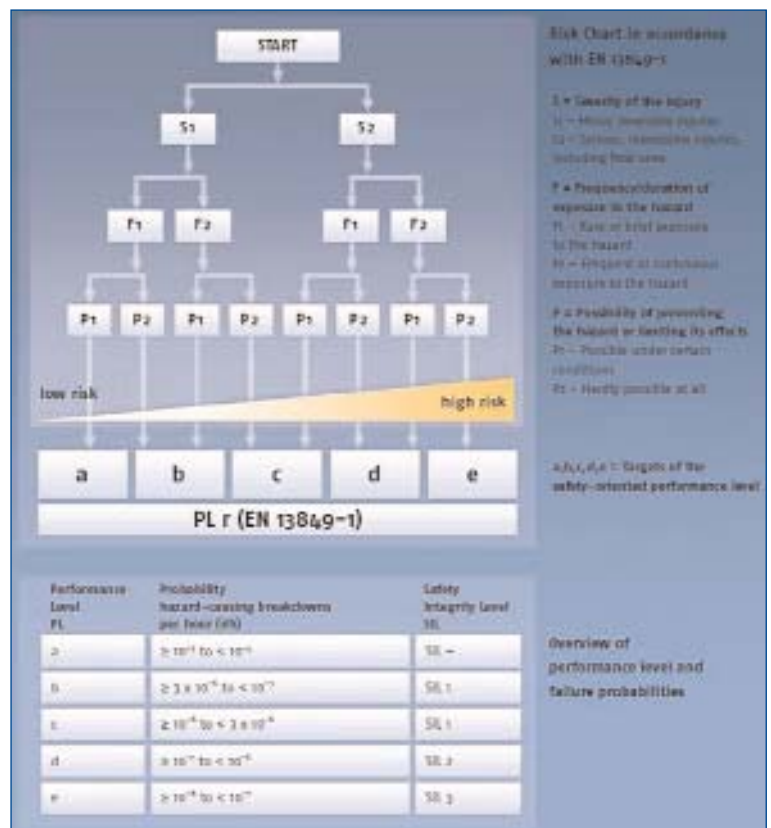
Beginning from DECEMBER 2009 all machine manufacturers must effect risk analysis to draw up the Technical File and the emission of the CE Conformity Declaration of the machine according to the new EN ISO 13849-1 and/or EN/IEC 62061 standards relative to machine reliability. Safety device manufactures, such as light curtains to be installed on the machines, must supply the PL (Performance Level) and SIL (Safety Integrity Level) parameters.

DATASENSOR will certify the entire SE, SF2 and new SG2, SG4 and SG Body light curtain series according to the TÜV certification requirements in full compliance with the IEC 61508, EN ISO 13849-1 and EN/IEC 62061 Standards, defining the

new reliability parameters:

1. SIL
2. MTTFD
3. PFHD
4. PL

More complete and detailed documentation relative to the new EN ISO 13849-1 and EN/IEC 62061 Regulations and on the SIL and PL calculation is available in the appendix of the DATASENSOR SAFETY GUIDE, available on www.datasensor.com.



SG4-B tutorial

Pilot project of the DLA Sales School

The DLA Sales School project is finalized to create a training centre dedicated to the Datalogic sales network (direct and indirect distributors, sales representations, technicians and Marketing personnel), thanks to efficient didactic tools such as equipped rooms for "on hand" trainings, e-learning modules, case studies, external consultants and 3D virtual demos. The possibility of interacting actively in the training sessions using product demos, participating at Focus Groups, web conferences or sales simulations, and making this knowledge network an example of innovation. First step

of the DLA Sales School is the **SG4-B TUTORIAL**, first example of e-learning signed Datasensor-Datalogic. The tutorial is one of the most important assets of the DLA Sales School as it will allow to train the sales network in very rapid time, thanks to high-level multimedia supports (video, films, 3D animations). E-learning will allow to train sales personnel without having to move people and thus reducing time and costs.



DATASENSOR
E-LEARNING PROGRAMME



The tutorial of the new SG4-B Lion light curtain is divided in different sections to better manage the sales process to allow an easier and more immediate information tracking:

- Company presentation
- Datasensor leadership in light curtains
- Safeasy concept
- Range overview (SG series)
- SG4-B product zoom
- Product description
- Sales arguments (selling points)
- "One to One" comparison with main competitor products
- Product installation

demonstration video

• Success cases
 At the end of the more important sections, a multiple reply TEST verifies the user's preparation level and allows, if necessary, return to the sections which have to be repeated to acquire a more detailed knowledge of the product.

The Tutorial faces all the product features, thanks to films that explain all the product aspects including installation modes and the Safeasy concept, documents and interviews.

The Tutorial will supply a didactic, technical and commercial support able to supply all the key elements necessary to carry-out successfully a negotiation.

