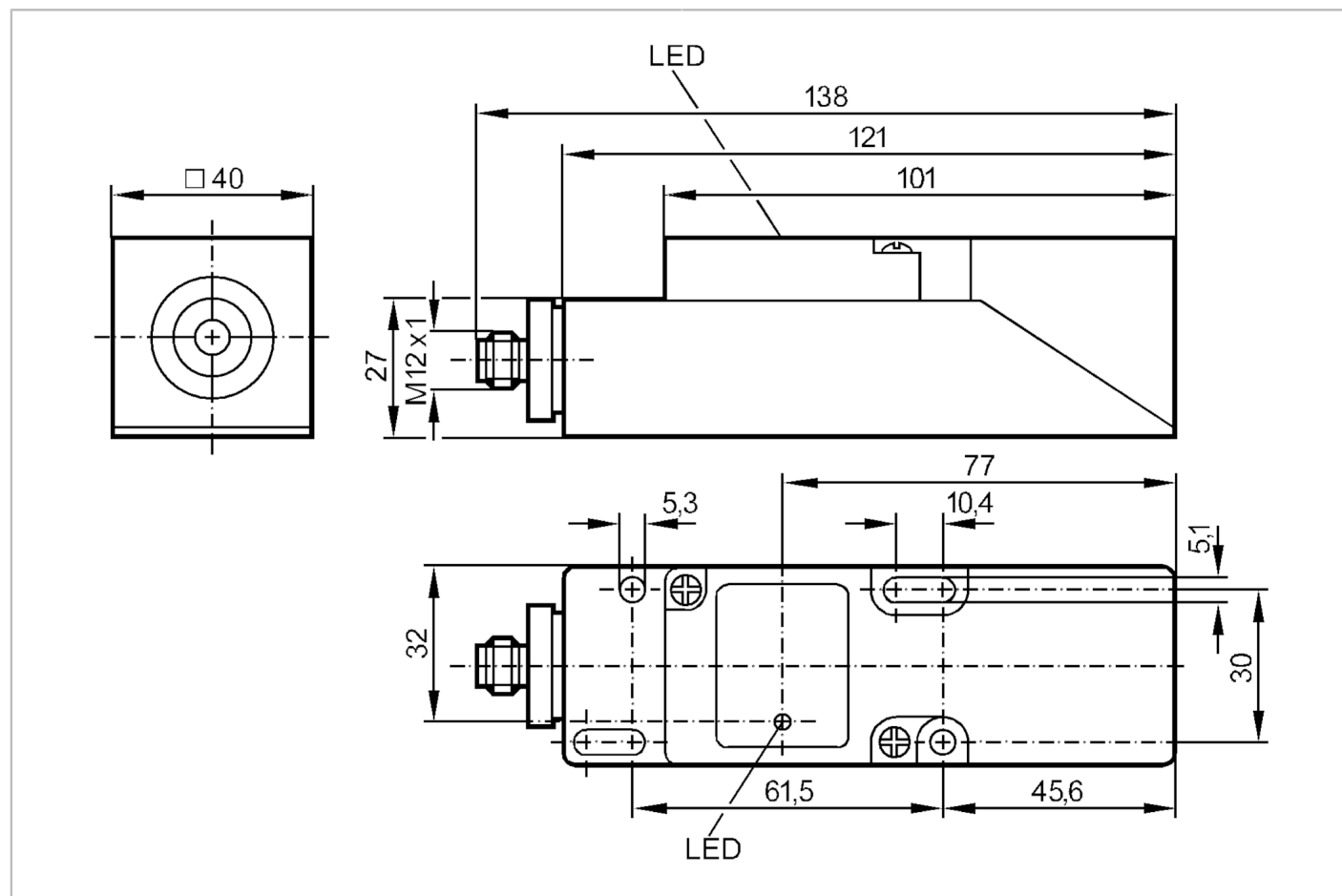




## Inductive sensor

IME2015FRKG/US100IRF



### Product characteristics

|                    |                                               |
|--------------------|-----------------------------------------------|
| Electrical design  | PNP/NPN                                       |
| Output function    | normally open / normally closed; (selectable) |
| Sensing range [mm] | 15                                            |
| Housing            | rectangular                                   |
| Dimensions [mm]    | 40 x 40 x 120                                 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...55 DC |
| Reverse polarity protection | yes        |

### Outputs

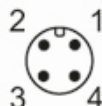
|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Electrical design                                    | PNP/NPN                                       |
| Output function                                      | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC [V]            | 4.6                                           |
| Minimum load current [mA]                            | 4                                             |
| Max. leakage current [mA]                            | 1                                             |
| Permanent current rating of switching output DC [mA] | 400                                           |
| Switching frequency DC [Hz]                          | 350                                           |
| Short-circuit protection                             | yes                                           |
| Overload protection                                  | yes                                           |

# IM8500



## Inductive sensor

IME2015FRKG/US100IRF

| Detection zone                                                                                 |                                                                             |               |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|
| Sensing range                                                                                  | [mm]                                                                        | 15            |
| Real sensing range Sr                                                                          | [mm]                                                                        | 15 ± 10 %     |
| Accuracy / deviations                                                                          |                                                                             |               |
| Correction factor                                                                              | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |               |
| Hysteresis                                                                                     | [% of Sr]                                                                   | 3...15        |
| Switch point drift                                                                             | [% of Sr]                                                                   | -10...10      |
| Operating conditions                                                                           |                                                                             |               |
| Ambient temperature                                                                            | [°C]                                                                        | -25...80      |
| Protection                                                                                     | IP 65                                                                       |               |
| Tests / approvals                                                                              |                                                                             |               |
| EMC                                                                                            | EN 60947-5-2                                                                |               |
|                                                                                                | EN 55011                                                                    | class B       |
| Mechanical data                                                                                |                                                                             |               |
| Weight                                                                                         | [g]                                                                         | 208.652       |
| Housing                                                                                        | rectangular                                                                 |               |
| Mounting                                                                                       | flush mountable                                                             |               |
| Dimensions                                                                                     | [mm]                                                                        | 40 x 40 x 120 |
| Materials                                                                                      | PPE                                                                         |               |
| Displays / operating elements                                                                  |                                                                             |               |
| Display                                                                                        | switching status                                                            | 1 x LED, red  |
| Remarks                                                                                        |                                                                             |               |
| Pack quantity                                                                                  | 1 pcs.                                                                      |               |
| Electrical connection - plug                                                                   |                                                                             |               |
| Connector: 1 x M12; coding: A                                                                  |                                                                             |               |
| <div></div> |                                                                             |               |

# IM8500



## Inductive sensor

IME2015FRKG/US100IRF

### Connection

